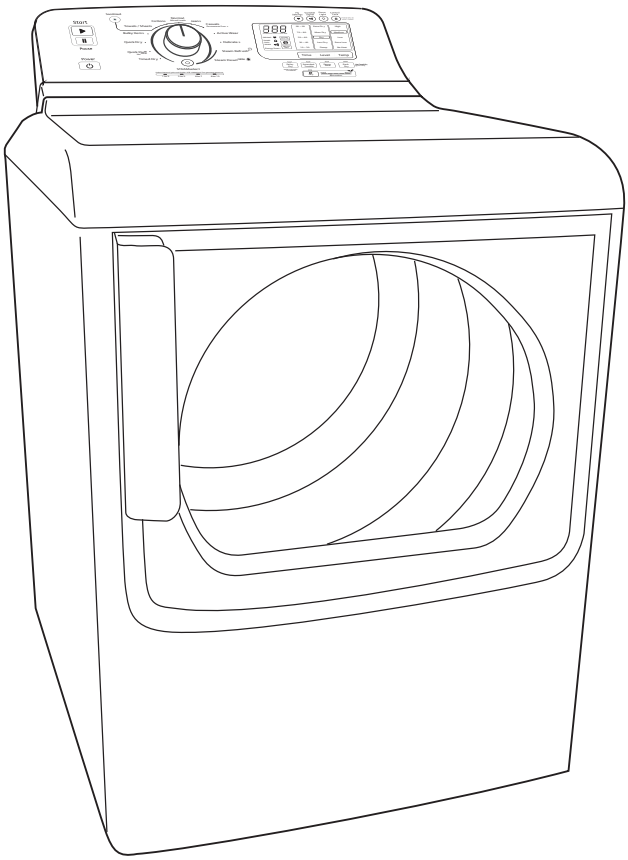
GE Appliances

Technical Service Guide

December 2012

GE CleanSpeak™ Dryers

GHDS830EDWS/GDWS
GHDS835EDMC/GDMC
GTDL740EDWW/GDWW
GTDP740EDWW/GDWW
GTDS810EDWS/GDWS
GTDS815EDMC/GDMC
GTDS820EDWS/GDWS
GTDS825EDMC/GDMC
GTDS850EDWS/GDWS
GTDS855EDMC/GDMC
GTDS860EDWS/GDWS
GTDS865EDMC/GDMC



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GE Appliances
General Electric Company
Louisville, Kentucky 40225

IMPORTANT SAFETY NOTICE

The information in this service guide is intended for use by individuals possessing adequate backgrounds of electrical, electronic, and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

WARNING

If the information in this manual is not followed exactly, fire or explosion may result causing property damage, personal injury or death. If you smell gas:

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in the building.
- Immediately call the gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

WARNING

To avoid personal injury, disconnect power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks.

RECONNECT ALL GROUNDING DEVICES

If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

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Technical Service Guide
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Nomenclature

Model Number

G T D S 8 6 0 E D O W W

Brand
D = General Electric

Configuration
T = Top Load

Product
D = Dryer

Key Feature
S = Steam

Series

Color
0 = White
5 = Color

Fuel
E = Electric
G = Gas

Model Year
D = 2012

Engineering Digit

Specific Color
WW = White
WS = Silver Backguard
MC = Metallic Carbon

The nomenclature tag is located on the front panel inside the door.

Note: The technical sheet is located inside the control panel.

Serial Number

The first two characters of the serial number identify the month and year of manufacture.

Example: ZZ123456S = December, 2012

Z – DEC	2012 – Z
A – JAN	2011 – V
D – FEB	2010 – T
F – MAR	2009 – S
G – APR	2008 – R
H – MAY	2007 – M
L – JUN	2006 – L
M –JUL	2005 – H
R – AUG	2004 – G
S – SEP	2003 – F
T – OCT	2002 – D
V – NOV	2001 – A

The letter designating the year repeats every 12 years.

Example:
Z - 2012
Z - 2000
Z - 1988

Introduction

GE CleanSpeak™ Dryer Features

GE CleanSpeak™ model dryers incorporate 2 steam features. These units do not utilize a separate steam generator. These dryers use a water valve and a steam nozzle that functions as a "misting" orifice. It works in conjunction with the heat generated by the dryer to de-wrinkle clothing.

Located in the *Timed Dry Cycles*, the steam cycles are:

- *Steam Refresh* – Freshens up to 5 slightly wrinkled dry garments, reducing wrinkles and odors to extend for another wear.
- *Steam Dewrinkle* – Helps remove stubborn wrinkles from larger loads quickly and conveniently, even from clothes left in the dryer from the day before.

A "Y" connector installed on the washer's cold water inlet hose supplies water to the dryer. The water valve inlet is located at the bottom left area of the dryer. A hose carries the water to the misting orifice.

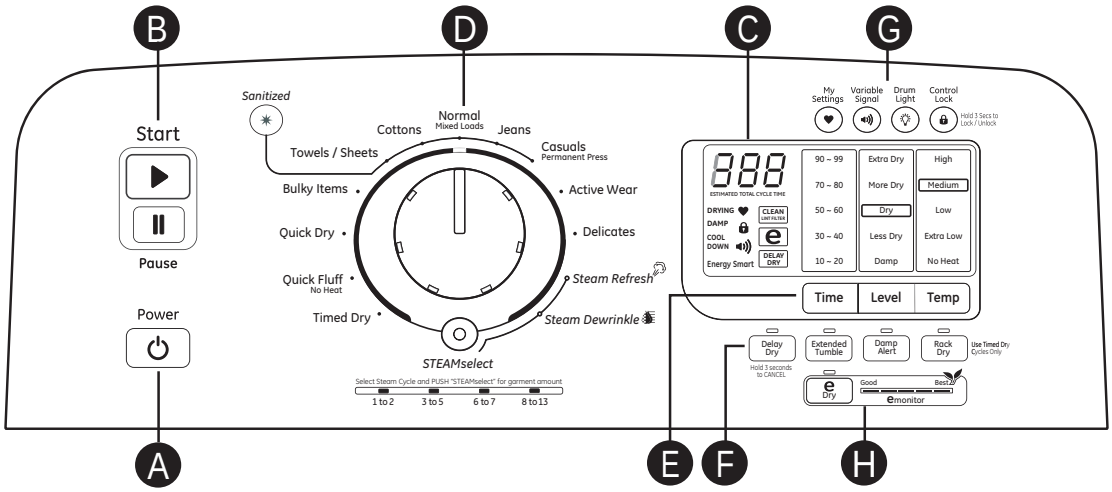
Other Features Include:

- CleanSpeak™ Communication System – Dryer can communicate with a compatible washer.
- Brillion Enabled Communication – Dryer can communicate with your Home Computer and/or iPhone®.
- 13 dryer cycles – Offer enhanced drying performance and fabric care.
- Energy Smart™ – Enables your dryer to reduce energy consumption during periods of high energy costs.
- HE SensorDry™ – Allows the control to monitor the fabric for moisture content and end the cycle at the desired moisture level.
- My Settings – Selection saves a favorite cycle for future use.
- Cycle countdown display with LED indicators – Know exactly how much time is left for each cycle with bright display and lights.
- Large 7.8 and 8.3-cubic foot dryer drum capacities.
- Integrated Drying Rack for drying delicate items, such as washable sweaters.
- Dual Thermistors – Thermistors are more sensitive to temperature changes and can relay the information faster than thermostats. The dryer utilizes dual thermistors to monitor incoming air temperature, as well as air temperature leaving the drum. The sensors work together with the heat and the blower to provide consistent, even heat.
- LED Drum Lamp.
- Reversible door.
- Long Vent Models – Separate blower motor for long vent applications.
- Built-in service test mode. Specific dryer components can be operated. Error codes are recorded and accessible on the control panel display.

Control Features

Throughout this manual, features and appearance may vary from your model.

Controls



A *Power*

Press to "wake up" the display. If the display is active, press to put the dryer into idle mode.
NOTE: Pressing *Power* does not disconnect the appliance from the power supply.

B *Start and Pause*

Press *Start* to begin the cycle. *NOTE:* The door must be closed for the dryer to start the cycle. Pressing *Pause* will pause the cycle, the *Start* will blink and "*PAUSE*" will scroll across the LCD.

To continue the cycle, press *Start* again. To stop the cycle, hold the button for 3 seconds.

C *Display and Status Lights*

The display shows the approximate time remaining until the end of the cycle.

In addition, this display will, "scroll" the dryer status:

- *PAUSE* — The message "*PAUSE*" will scroll across the display when the dryer's cycle is paused. The cycle may be re-started by pressing the *Start* button.
- *door* — The message "*door*" will be displayed when the door is opened during the dryer's cycle.
- *CyCLE* — The message "*CyCLE*" will be displayed when the clothes are dry and the washer is recommending a preferred cycle for the next load (see *CleanSpeak section*).
- *dELAY* — The message "*dELAY*" will be displayed when the Delayed Dry is initiated. It will be replaced with the estimated time when cycle starts.
- *ES* — Dryer in a delay start (4 hour maximum) awaiting lower energy rates (see *About Appliance Communication - Energy Smart* section).

Cycle status lights

Shows whether the washer is in the *DRYING, DAMP,* or *COOL DOWN* cycle.

Feature status lights indicate:

- ♥ The *My Settings* feature is on for this cycle.
- 🔒 The dryer is locked - will blink once if you press any button or turn the cycle knob.
- 🔊 The signal is on. See the *Variable Signal* description.
- Energy Smart — The *Energy Smart* feature is selected. See *About Appliance Communication - Energy Smart* section.
- CLEAN LINT FILTER — The *Clean Lint Filter* light will stay on for 15 seconds after the cycle stops.
- e — The *eDry* feature is selected.
- DELAY DRY — A *Delay Dry* time is set.

(*Continued next page*)

D *Drying Cycles-Sensor cycles automatically determine fabric dryness. Timed cycles run for the selected time.*

Timed Dry	Set the Cycle Selector at the desired drying time.
Quick Fluff/ No Heat	For freshening or fluffing up already dry clothing, fabric, linens and pillows. Use with *No Heat*. Provides 10 minutes of no-heat tumbling.
Quick Dry	For small loads that are needed in a hurry, such as sport or school uniforms. Can also be used if the previous cycle left some items damp, such as collars or waistbands. *NOTE:* On some models, the time remaining in the cycle will show counting down in the display.
Bulky Items	For large coats, bed spreads, mattress covers, sleeping bags and similar large/bulky items such as blankets, comforters, jackets, and small rugs.
*Towels/Sheets**	For most towels and linens.
*Cottons**	For cottons and most linens.
*Normal/Mixed Loads**	For loads consisting of cottons and poly-blends.
*Jeans**	For jeans.
*Casuals/ Permanent Press**	For wrinkle-free, permanent press, delicate items and knits.
Active Wear	For sports and exercise wear.
Delicates	For delicate items, special-care fabrics and knits.
Steam Refresh	For slightly wrinkled dry garments. Significantly reduces wrinkles. *NOTE:* A single extremely light fabric item may need to have an additional item included in the *Steam Refresh* cycle to achieve optimum results.
Steam Dewrinkle	For use with larger loads than *Steam Refresh.* Ideal for loads left in the dryer for an extended time.
STEAMselect	The *STEAMselect* button is used in conjunction with *Steam Refresh* and *Steam Dewrinkle*. As you press the button, it defines how many articles are in the dryer and adjusts the steam and cool down times accordingly.

Steam Cycle (&) Notes:

- *Important - The temperature setting must be set to HIGH and water must be turned on before running the steam cycles.*
- *The Extended Tumble option will be turned on.*
- After the *steam cycle*, the unit will beep (if *Variable Signal* is on) and display "00".
- *Do not use a steam cycle with items such as wool, leather, silk, lingerie, foam products or electric blankets.*
- *Do not use steam cycles on new clothes without first washing.*
- *Steam cycles are not intended for use with towels.*

Sanitized	This option reduces certain types of bacteria by 99.9%, including: Staphylococcus aureus, Pseudomonas aeruginosa and Klebsiella pneumoniae**. The anti-bacterial process occurs when high heat is used during a portion of the drying cycle. *NOTE:* The *Sanitized* cycle locks on (i.e. cannot be turned off) the *Extra Rinse* option. *NOTE:* Do not use this cycle on delicate fabrics.

NSF Protocol P154 Sanitization Performance of Residential Clothes Dryers

*Cycles available with Sanitized option.

**The Sanitized Cycle is Certified by NSF International (formerly National Sanitation Foundation) to NSF Protocol P154 Sanitization Performance of Residential Clothes Dryers.

E *Settings*

Individual settings for *Timed Dry* cycle minutes (*Time*), dryness level (*Level*), and temperature (*Temp*) can be set from the minimum (lowest in column) to maximum (highest in column). In general, the higher up the column, the more energy will be used.

Time - Selection only for Timed cycles.

Each "setting" allows you to specify a lower (1 tap) or an upper (2 taps) time working your way from a minimum 10 minute to a maximum 99 minute dry time (10, 20, 30, 40, . . . 80, 90, 99, 10 . . .)

Dryness Level - Selection only used for Sensor cycles. Timed cycles run for the selected time.

Extra Dry	Use for heavy-duty fabrics or items that should be very dry, such as towels.
More Dry	Use for heavy-duty or mixed type fabrics.
Dry	Use for a normal dryness level suitable for most loads. This is the preferred cycle for energy savings.
Less Dry	Use for lighter fabrics.
Damp	For leaving items partially damp.

(Continued Next Page)

E *Temperature*

High	For regular to heavy cottons. *NOTE: Steam Dewrinkle* and *Steam Refresh* require the High temperature setting.
Medium	For synthetics, blends, delicates and items labeled permanent press.
Low	For delicates, synthetics and items labeled *tumble dry* low.
Extra Low	For delicates, synthetics and items labeled *tumble dry* low.
No Heat	For fluffing items without heat. For use only with the *Timed Dry* cycles.

F *Options*

Delay Dry

As the *Delay Dry* button is repeatedly pressed, the delay time sets to from 1 to 9 hours, and back to clear (0). After selecting the delay time, press *Start* and the delay time will count down the time remaining until the cycle starts.

If the *Delay Dry* button is pressed for 3 seconds, it clears (regardless of the delay time) or terminates a delaying cycle.

Extended Tumble

Use this option to minimize the wrinkles in clothes. It provides 1 hour of no-heat tumbling after the clothes are dry. If you are using the cycle *Signal* and you select the *Extended Tumble* option, a signal will sound at the end of the drying time and every 5 minutes during the *Extended Tumble* cycle. This will remind you that it is time to remove the clothes.

Damp Alert

This option causes the dryer to beep when clothes have dried to a damp level. Remove items that you wish to hang dry. The *Damp Alert* will only beep when this option is selected (but the dry cycle will keep running). Removing clothes and hanging them when they are damp, can reduce the need to iron some items. The light beside the button will be lit when *Damp Alert* is on.

Rack Dry

Rack Dry is only allowed for timed cycles (*Timed Dry* & *Quick Fluff*). The light turns off if cycle knob is turned to a non-timed cycle.

G *My Settings* ♥

As the cycle selector knob is turned, the *Time (Timed Dry)*, *Level (Dryness Level)*, and *Temp (Temperature)* settings change to automatic pre-set default settings. If you desire a different setting, press the appropriate button(s). Then press and hold the *My Settings* button for 3 seconds, the status heart and button lights will turn on, and the dryer will save these settings for that knob selection. In the future, when you turn the selector knob to that cycle, your settings will be automatically recalled.

To temporarily (for this load) return to the pre-set default settings, depress the *My Settings* button for 1/2 second, the status heart and button lights will turn off and the options will change back to these defaults. To make these default settings permanent, hold the *My Settings* button again for 3 seconds to make them your preferred settings (the lights will turn back on).

NOTE: Variable Signal volume cannot be set for *My Settings*.

Variable Signal

Use the *Variable Signal* button to change the volume of the end of cycle and control signals. Press the button until you reach the desired volume (low-med-high) or off. The clothes should be removed when the beeper goes off so wrinkles do not set in.

NOTE:

- Remove garments promptly at the sound of signal. Place clothes on hangers so wrinkles will not set in.
- Use the *Variable Signal* especially when drying fabrics like polyester, knits and permanent press. These fabrics should be removed so wrinkles will not set in.

Drum Light

The drum light will go on if the *Drum Light* button is pushed or the door is opened. It will stay on until the door is shut or the *Drum Light* or *Power* button is pushed.

Control Lock

You can lock the controls to prevent any selections from being made. Or you can lock the controls after you have started a cycle. Children cannot accidentally start the dryer by touching buttons with this option selected.

To lock the dryer controls, press and hold the *Control Lock* button for 3 seconds. The control lock icon will light up when locked.
To unlock the dryer controls, press and hold the *Control Lock* button for 3 seconds.

NOTE: The Power button can still be used when the machine is locked.

H *eDry*

Available for **Bulky Items, Towels/Sheets, Cottons, Normal/Mixed Loads, Jeans, Casuals/Permanent Press, Active Wear**, and **Delicates**. When the *eDry* button is pressed, cycle settings change to reduce the total energy consumption of the selected sensor cycle. *NOTE: Cycle times will change when eDry is selected.*

The *eMonitor* lights display the relative energy use of your selected cycle and options. They are provided as an energy guide and range from Good (1 light) to Better (5 lights). Cycle (time), dryness level, temperature, and additional tumble options can increase or decrease your energy efficiency. Some special cycles will not provide a display.

(*Continued next page*)

About the dryer features.

Sensor Dry

This feature is activated in all but the Timed (*Timed Dry* & *Quick Fluff*) and Steam (*Steam Refresh* & *Steam Dewrinkle*) cycles.

The *Sensor Dry* provides greater drying accuracy than standard machines, resulting in shorter dry times and better clothes care. As the clothes tumble, they touch a moisture sensor. The sensor will stop the heating cycle as soon as the clothes have reached the selected dryness.

This dryer will adjust the initial estimated drying time of the sensor dry cycles as it "learns" its installation and usage profile. Please allow several weeks for the dryer to customize itself to "you".

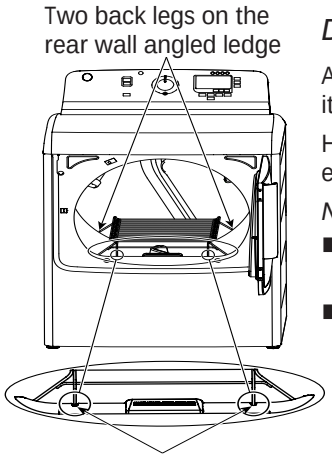
Time Dry

This feature is activated in *Timed Dry* & *Quick Fluff* cycles. The time (10, 20, 30, 40, . . . 80, 90, 99) is specified via the *Time* button.

Steam Cycle

This feature is activated in *Steam Refresh* & *Steam Dewrinkle* cycles. Use *STEAMselect* to indicate the number articles.

Drying Rack (on some models)


Two back legs on the rear wall angled ledge
Secure front two inner straight legs into the oval holes on both sides of the lint filter handle

A handy drying rack may be used for drying items such as tennis shoes.

Hook the rack over the lint filter so the rack extends into the dryer drum.

NOTE:

- The drying rack must be used with the *Timed Cycle*.
- Do not use this drying rack when there are other clothes in the dryer.

To use the drying rack:

1. Insert the drying rack into the dryer opening with the two leg side toward the back and four leg side toward the front.
2. Place the two back legs on the rear wall angled ledge.
3. Secure front two inner straight legs into the oval holes on both sides of the lint filter handle.

NOTE: Rotate the dryer drum by hand clockwise to make sure the baffles clear the rack.

Stainless Steel Drum

The stainless steel used to make the dryer drum provides the highest reliability available in a GE dryer. If the dryer drum should be scratched or dented during normal use, the drum will not rust or corrode. These surface blemishes will not affect the function or durability of the drum.

Drum Light

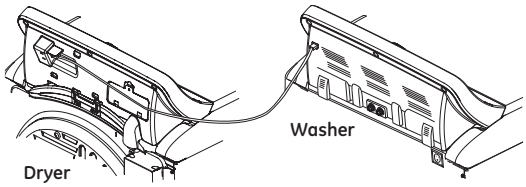
The drum light is an LED light. Replacement must be done by a qualified technician.

(*Continued next page*)

Communication.

CleanSpeak™

This dryer can communicate with a compatible washer (one whose Owner's Manual contains a CleanSpeak description) via a cable between these appliances. This cable comes with a CleanSpeak dryer models or may be purchased separately.



At the end of the wash cycle, the washer sends a signal to the dryer to indicated a preferred dry cycle. When the dryer becomes idle (*"End"* display times out - or- the door is opened) *"CYCLE"* will scroll across its cycle time display, its current cycle knob setting LED will be lit, and (if different) a second recommended cycle LED will blink. If *"CYCLE"* times out, pressing *Power* will refresh it and the LEDs. If the dryer cycle knob is turned , the solid LED will move accordingly. Pressing the dryer *Start* will initiate the cycle knob setting (solid LED) and turn off the recommended (blinking LED) if a different cycle is started.

NOTE: Clean Speak CYCLE times out after 5 minutes. Pressing the power button will refresh CYCLE and the LEDs no matter how long it has been timed out.

Brillion Enabled Communication

This dryer (and/or compatible washer) can communicate with your Home Computer and/or iPhone®. By using the GE Nucleus™ Home Energy Manager and Appliance Communication Module (ACM) you will be able to see the following:

On your home computer or iPhone®:

- Which cycle is running and what its current cycle segment is (example, "Cool Down").
- The estimated time remaining of the cycle that has been selected.
- When a cycle has completed or if it requires maintenance or servicing.
- Alerts notifying you if the washer needs maintenance or servicing.

What your software allows you to do:

Cycle display will provide the current status of the wash cycle:

- Drying, Damp, Cool Down or Complete.

Alerts will notify you of problems. *Some* examples:

- Inlet Thermostat problem
- Outlet Thermostat problem

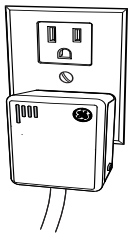
What you will need for two-way communication:

- Nucleus home energy manager model
- Appliance communication Module model
- Broadband connection with router (Wi-Fi for iPhone® connection)
- Computer (Mac® or PC) and/or Internet capable iPhone®.

NOTE: If you also have a compatible Energy Smart washer, see Installation Instructions for additional parts.

Installation

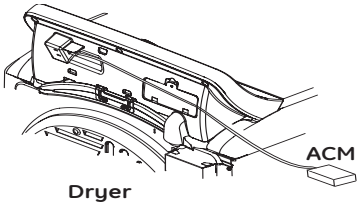
Step 1: Install your Nucleus Home Energy Manger/ Cable - near your internet router.



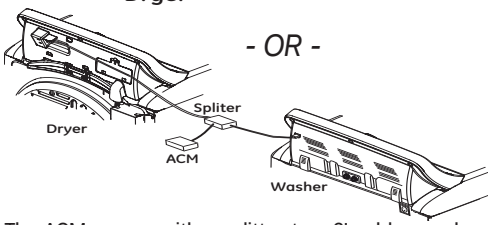
Refer to the Quick Start Guide/Installation Instructions included with this device for information needed to download software to a desktop and/or iPhone®.

Step 2: Install your Appliance Communication Module (ACM) in your Laundry area. Determine the most convenient location for your ACM. Install the ACM according to the Quick Start/Installation Instructions included with the device.

Step 3: Connect your ACM to your dryer or dryer-washer.



- OR -



The ACM comes with a splitter, two 6' cables, and a 1' cable (see *Parts and Accessories* section). If you also have an Energy Smart washer, use the splitter to connect both appliances. *NOTE:* If this dryer did not come with a 6 foot cable, you will need to purchase a second 6 foot cable (see *Parts and Accessories* section).

For more information or questions, please visit: *www.gebrillion.com* or call 1-800-220-6899.

(*Continued next page*)

Energy Smart™

Energy Smart enables your dryer to reduce energy consumption during periods of high energy costs. If you live in an area where your power provider charges different rates at various times of the day, your dryer will inform you of those times when you are paying the highest rate. The Energy Smart icon will illuminate on the dryer control panel, the cycle time will display *"ES"*, and the operation will be in a delay mode. The dryer will delay start (up to 4 hours) until the rate goes down. You can override this feature by holding the Delay Dry button for 3 seconds to cancel and run it at your convenience (immediately or delayed 1-9 hours).

What you will need:

- Smart Meter to communicate with your washer (call your power provider)
- An Energy Smart dryer (like this one)
- An Appliance Communication Module (ACM)

Installation:

Step 1: Power provider installs a Smart Meter

Steps 2 & 3: Install an ACM. See the ***Brillion Enabled Communication*** section.

Reversing the Door Swing

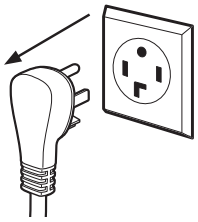
Note: These instructions are for changing the dryer so the door opens from the right side.

Tools needed:

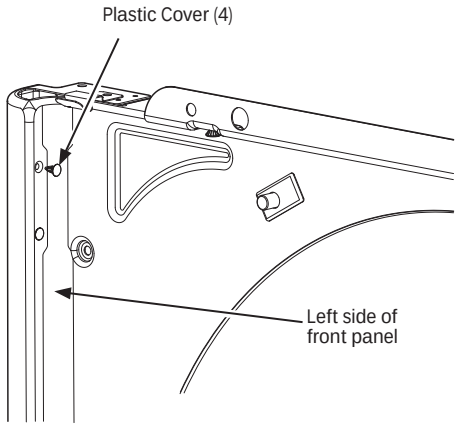
- *Standard #2 Phillips screwdriver*
- *Tape-tipped putty knife*
- *Small flat blade screwdriver*

Before you Start

Unplug the dryer from its electrical outlet.

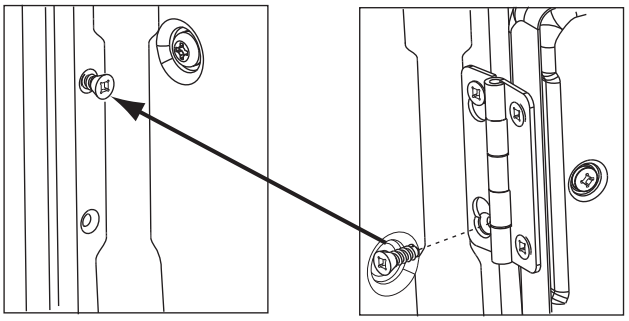


1 Open the door approximately 170 degrees. With a putty knife, remove the 4 plastic covers located along the left side of the front panel and set them aside.

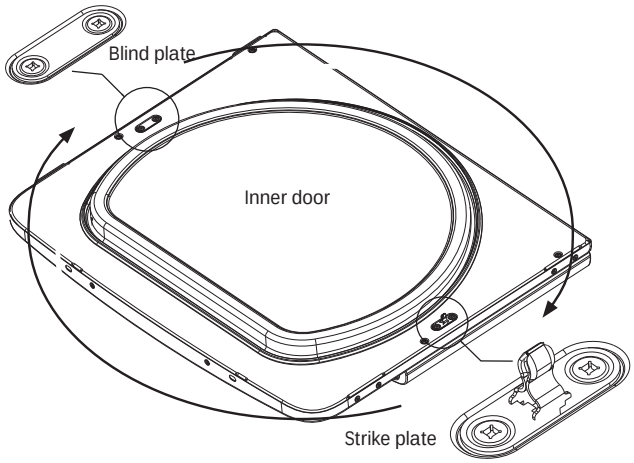


2 Remove the bottom screw from each hinge (right side) and partially insert them into the top left side hinge holes.

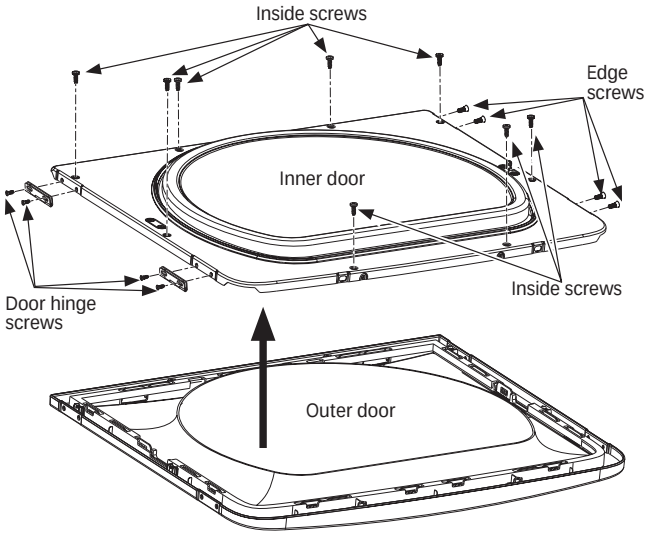
NOTE: All 4 front panel hinge screws will now be in the top hinge holes - 2 on the left and 2 on the right.



3 Loosen the bottom 2 right side hinge screws. Remove the door and place it on a protected, flat surface to avoid any damage. Remove both the Blind Plate and the Strike Plate and install them in opposite positions.



4 Remove the 4 door hinge screws, 4 edge screws, and 8 inside screws. Lift the inner door upwards using a flat blade screwdriver.



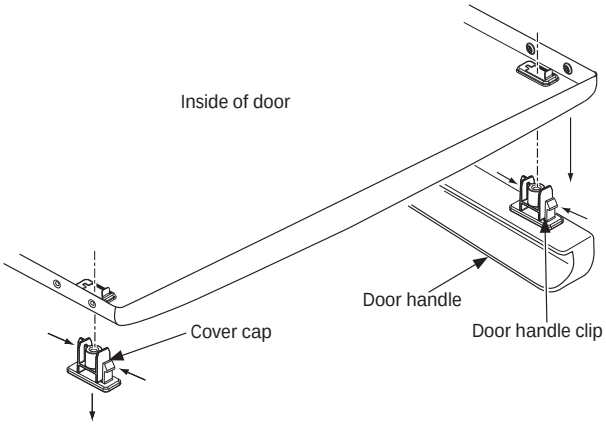
Note: Some doors may have 4 inside screws and 4 additional edge screws.

(*Continued next page*)

5 Remove and swap the 2 cover caps and door handle from the outer door:

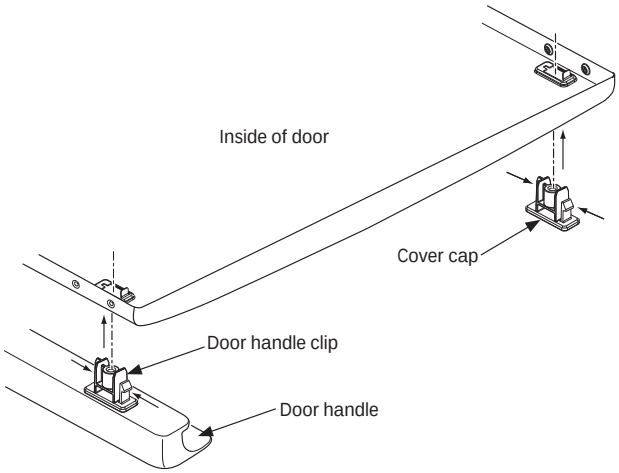
A. Squeeze the tabs on the inside of the door handle clips. Push clips through the outer door.

B. Squeeze the tabs on the inside of the cover caps. Push caps through the outer door.

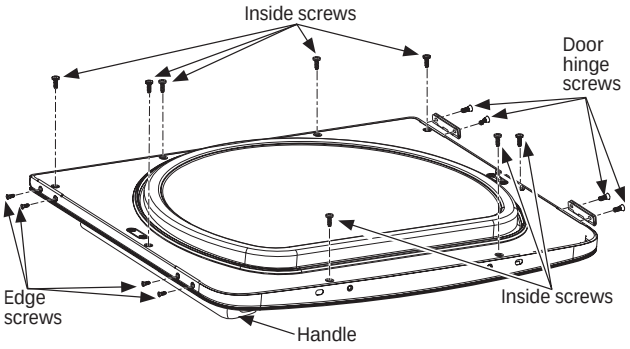


C. Push the door handle clips into the openings on the opposite side of the outer door making sure you flip the handle so it curves to the inside.

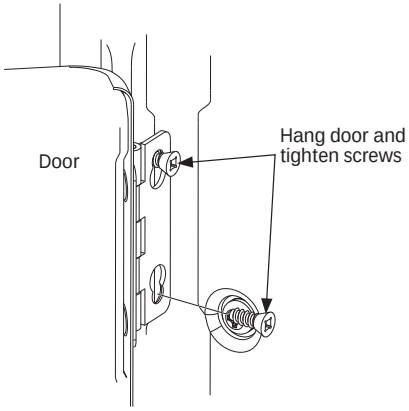
D. Push the cover caps into the openings on the outer door where the handle used to be installed.



6 With the cover caps and door handle in place, mount the inner door back into the outer door with the screws removed in step 4. Make sure you mount the hinges on the side opposite the handle.



7 Mount the assembled door on the 2 upper left side hinge screws installed in step 2. Move the hinge screws loosened in step 3 into the lower left side screw holes. Tighten those screws enough to hold the door but still allow a slight adjustment. Close the door. Adjust the door so there is equal gap on all sides. Carefully open the door and firmly tighten all 4 screws.

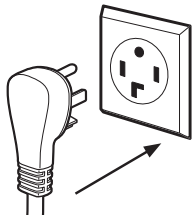


8 Install the 4 plastic caps removed in step 1 into the 4 right side front panel holes.

NOTE: To return the door to the original setup, follow these instructions, swapping “left” and “right”.

When you finish

Plug the dryer back into its electrical outlet.



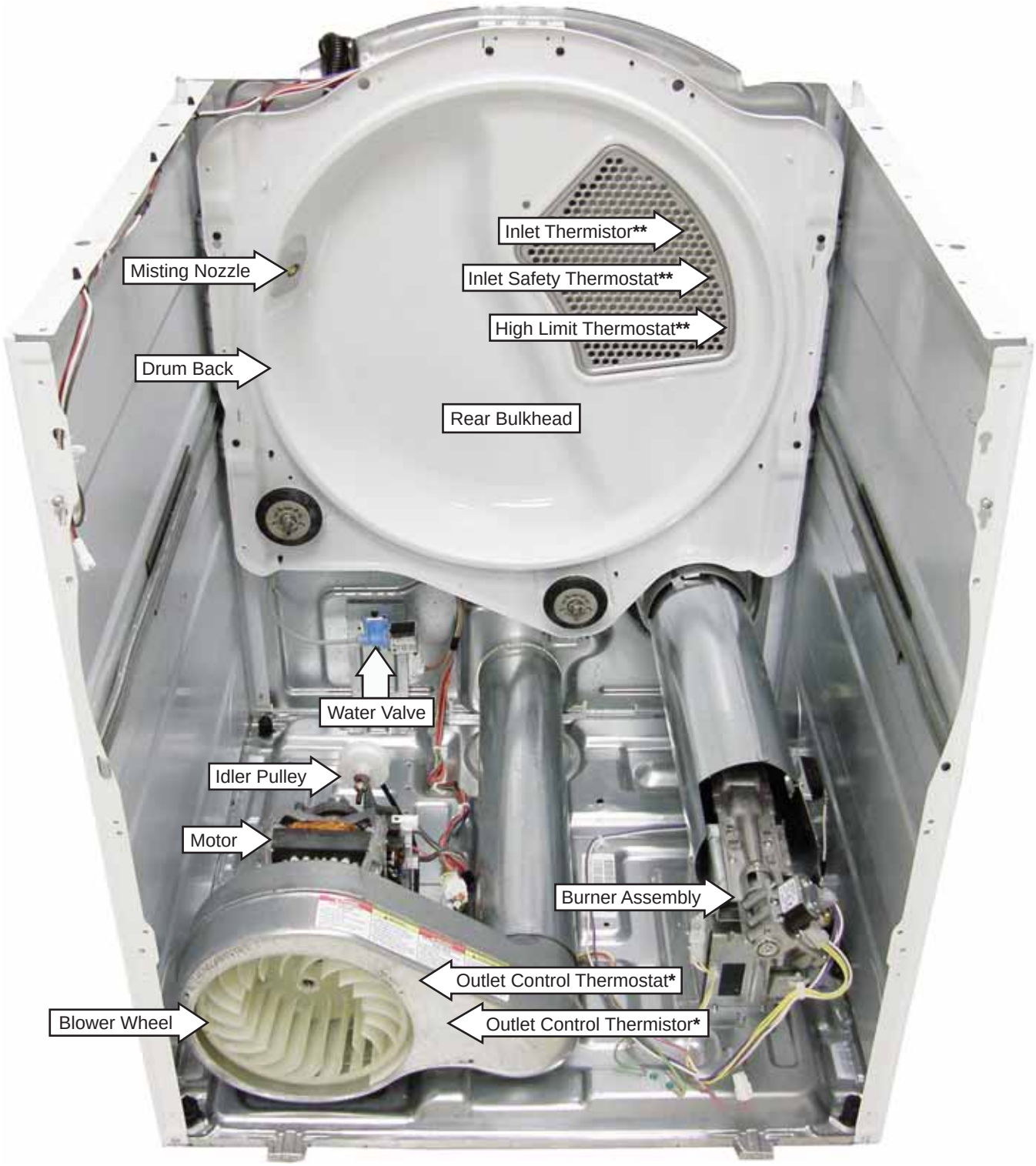
Component Locator Views

Electric Model

* Located on back of blower housing
** Located behind rear bulkhead

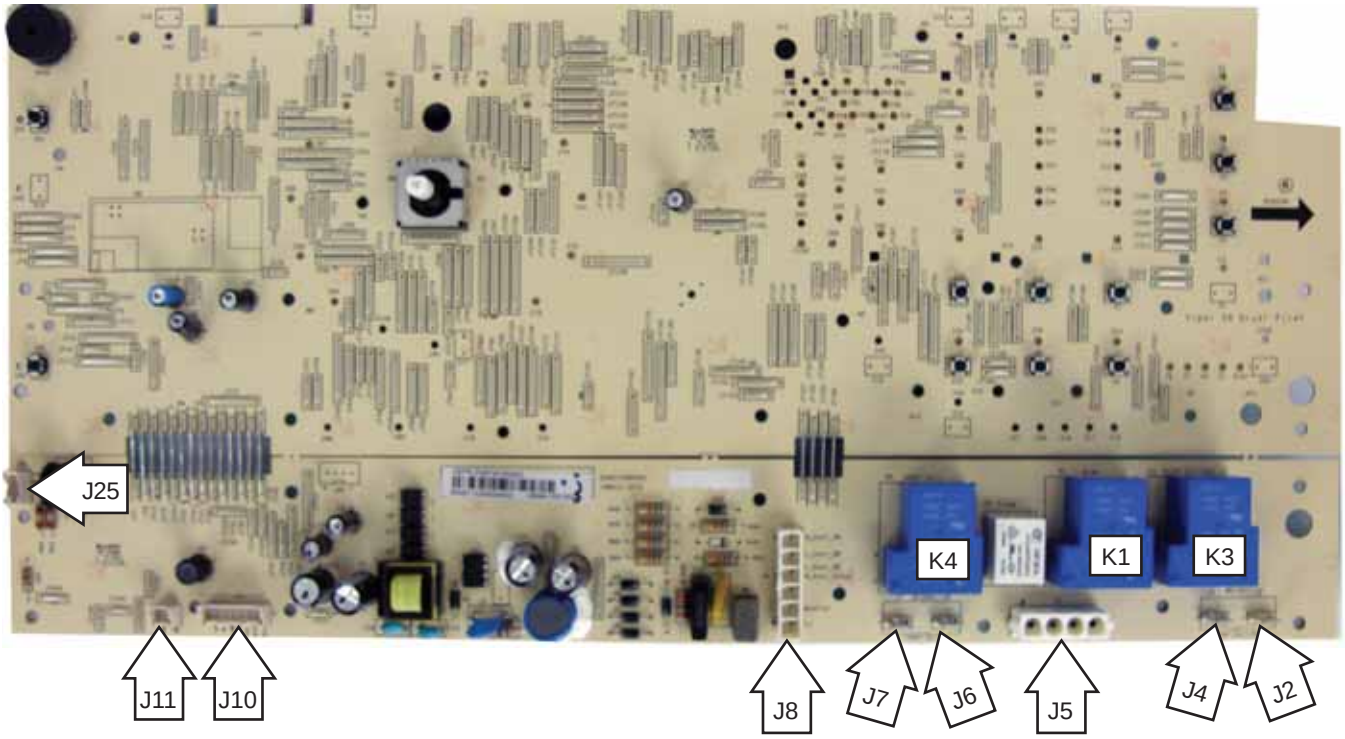
(Continued Next Page)

Gas Model



* Located on back of blower housing
** Located behind rear bulkhead

Control Board Connector Locator View



J2 - Outer Coil (Electric), Gas Valve

J4 - Outer Coil (Electric)

J5 - Drum Motor, L1, Steam, Long Vent Motor

J6 - Inner Coil (Electric)

J7 - Inner Coil (Electric)

J8 - L1, Neutral, Door Switch, Motor Centrifugal Switch

J10 - Outlet Control Thermistor, Inlet Control Thermistor, DSM Module, ground, GEA, 12 VDC

J11 - Drum Light

J25 - Sensor Rods, Earth Ground

K1 - Outer Coil Relay (Electric), Gas Valve Relay

K2 - Drum Motor Relay

K3 - Inner Coil (Electric) Relay

SW1 - UI Control

WARNING: Sharp edges may be exposed when servicing the dryer. Use caution to avoid injury. Wear Kevlar® gloves or equivalent protection.

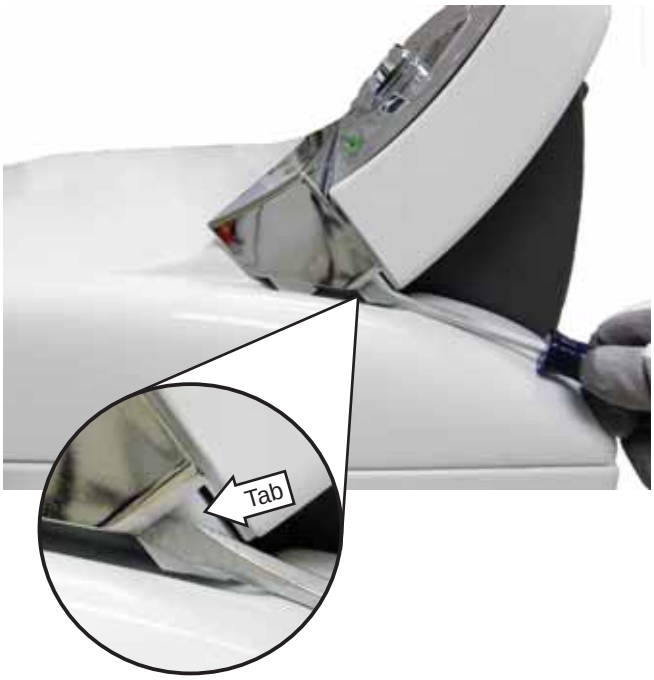
Note: Combined Phillips-head/square-drive recess screws are utilized throughout this appliance. Either Phillips or square-drive screwdrivers can be used to extract or install these screws.

Control Panel

Removal of the control panel provides access to the control board assembly. The control panel is held in place with 3 screws located below the control panel chrome trim and 2 key slots inside the control panel that engage 2 shoulder screws attached to the main top.

To remove the control panel:

1. Insert a flat blade screwdriver and press in each of the 2 release tabs (1 on each side) and slide the chrome trim forward from the control panel.



2. Remove the chrome trim from the control panel.

3. Remove the three 1/4-in. hex-head screws that attach the control panel to the main top.

4. Push the control panel back and remove it from the 2 shoulder screws attached to the main top.

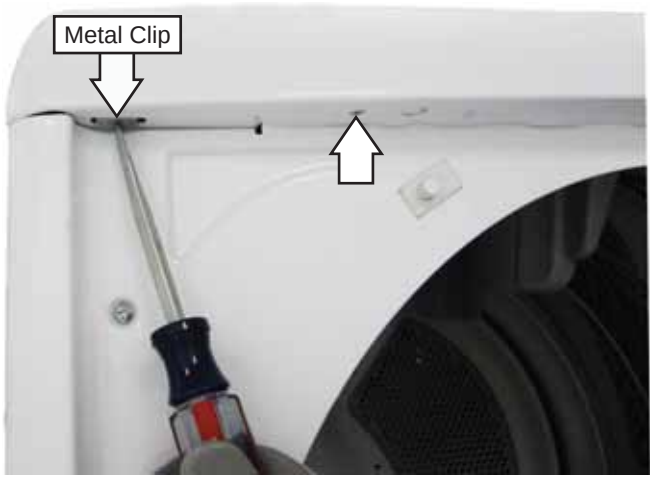
5. Carefully hang the control panel over the back of the dryer.

Top Panel

Removal of the top panel provides access to the drum light.

To remove the top panel:

1. Remove the control panel from the top panel. (See ***Control Panel***.)
2. Remove the 2 Phillips-head screws (1 from underneath each front corner) that attach the top panel to the dryer.
3. Press up the 2 metal clips (1 from underneath each front corner) and simultaneously push the top panel forward approximately 2 inches.



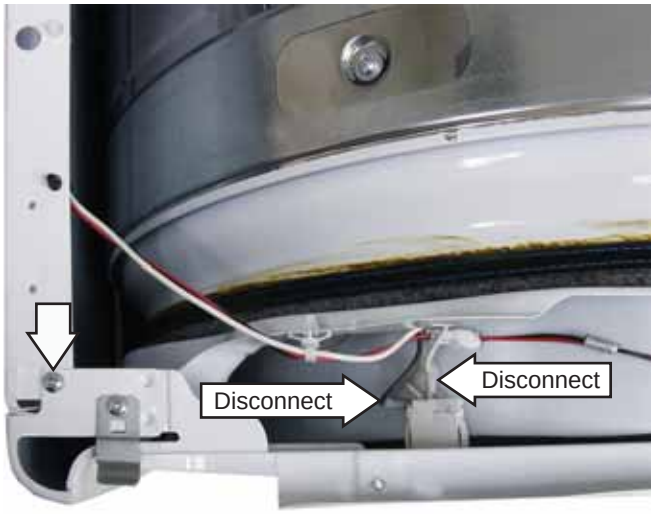
4. Lift the top panel from the dryer.

Front Panel

Removal of the front panel provides access to the drum and drive belt. The front panel is held in place by 6 screws and 2 bottom tabs on the frame.

To remove the front panel:

1. Remove the control panel. (See ***Control Panel***.)
2. Remove the top panel. (See ***Top Panel***.)
3. Disconnect the door switch wires.
4. Remove the top 2 Phillips-head screws (1 from each top corner) that attach the front panel to the dryer cabinet.



5. Remove the 4 Phillips-head screws that attach the front panel to the front frame.

6. Close the door. Grasp the top of the front panel on both sides, tilt it out, then lift the panel off the 2 bottom tabs.

Door Switch

The door switch is fastened to the front panel by 2 locking tabs (1 on each side). When the dryer door is closed, the switch will complete the drum motor circuit, allowing dryer operation. When the door is open, the switch will open the drum motor circuit, interrupting dryer operation. Opening the dryer door will also cause the drum light to be energized.

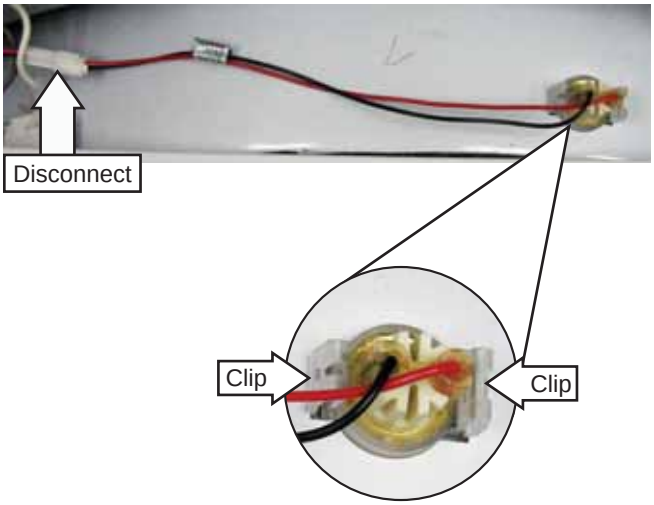
The door switch can be removed by inserting a flat blade screwdriver behind the switch flange and carefully prying the switch out from the front panel. Two wires are connected to the switch.

The door switch circuit can be checked in the service mode.

LED Drum Light

The LED drum light is attached to the front bulkhead with 2 clips. It is necessary to disconnect the drum light wire harness and squeeze both clips to remove the LED drum light.

The LED drum light receives approximately 3.8 VDC from the control board J11 connector.

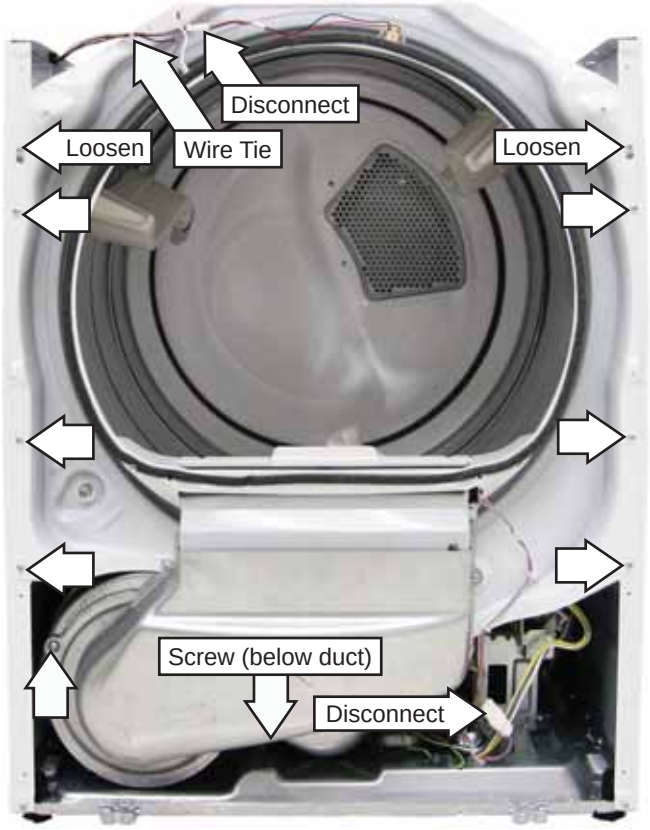


Front Bulkhead

The front bulkhead houses the lint filter housing, 2 sensor rods, 2 front rollers, and drum light. It is located behind the front panel.

To remove the front bulkhead:

1. Remove the control, top, and front panels. (See *Control Panel*, *Top Panel*, and *Front Panel*.)
2. Remove the wire tie from the front bulkhead.
3. Disconnect the drum light wire harness.
4. Disconnect the sensor rods wire harness.
5. Loosen, but do not remove the top 2 Phillips-head screws that attach the front bulkhead to the side panels.
6. Remove the remaining 6 Phillips-head screws that attach the front bulkhead to the side panels.
7. Remove the 2 Phillips-head screws that attach the bottom of the front bulkhead to the blower housing.
8. Lift the front bulkhead off the top 2 screws.



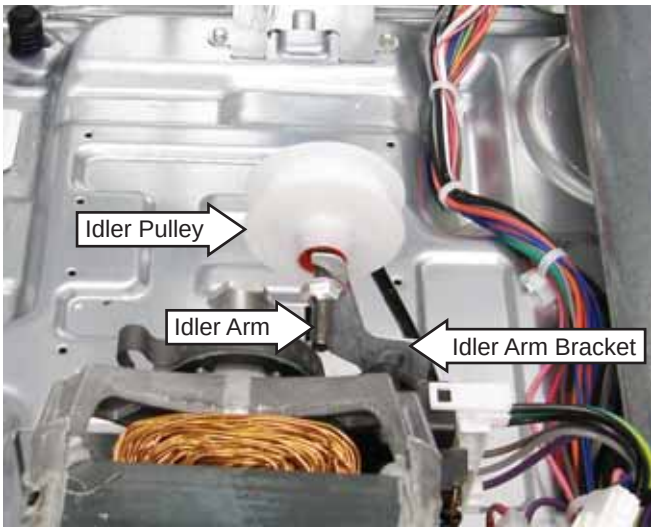
Drive Belt and Drum

The drum rotates clockwise, as viewed from the front, at a speed of 46-50 rpm. The drive belt extends from the motor pulley, past the idler pulley, and around the perimeter of the dryer drum.

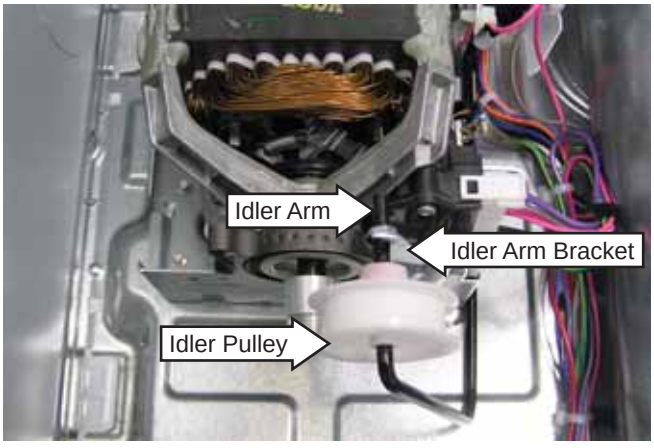
To remove the drive belt:

1. Remove the control, top, and front panels. (See *Control Panel*, *Top Panel,* and *Front Panel*.)
2. Remove the front bulkhead. (See *Front Bulkhead*.)
3. To release belt tension, reach under the left side of the drum, push the idler pulley to the left, then lock the idler arm into the top indentation on the idler arm bracket. (See photo. Drum removed for clarity.)

Non-Long Vent Model



Long Vent Model



4. Remove the belt from the motor pulley and idler pulley.
5. Guide the belt out from the dryer cabinet.

To install the drive belt:

1. Place the belt in position around the circumference of the drum.
2. Reach under the left side of the drum and place the belt in position around the motor and idler pulleys.
3. Release the idler pulley and guide the belt into position.

Note: The belt should be oriented so that the belt grooves contact the motor pulley.

Non-Long Vent Model Drive Belt Installed

Long Vent Model Drive Belt Installed

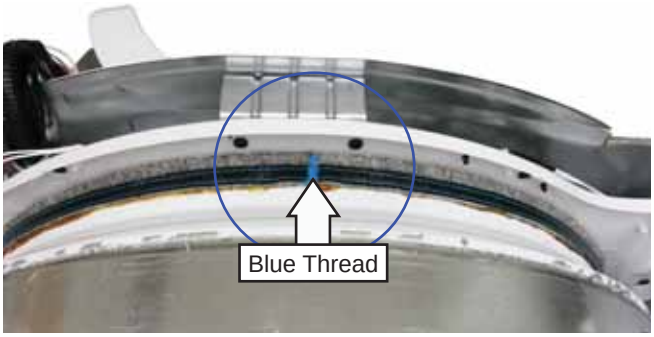
(Continued Next Page)

Note: Before installing the front panel, slowly rotate drum in both directions to ensure belt is aligned and not twisted.

To remove the drum:

1. Remove the belt from the motor pulley and idler pulley. (See **To remove the drive belt**, follow steps 1 through 3.)
2. Using the belt as a handle, pull the drum forward and guide it out of the dryer cabinet.

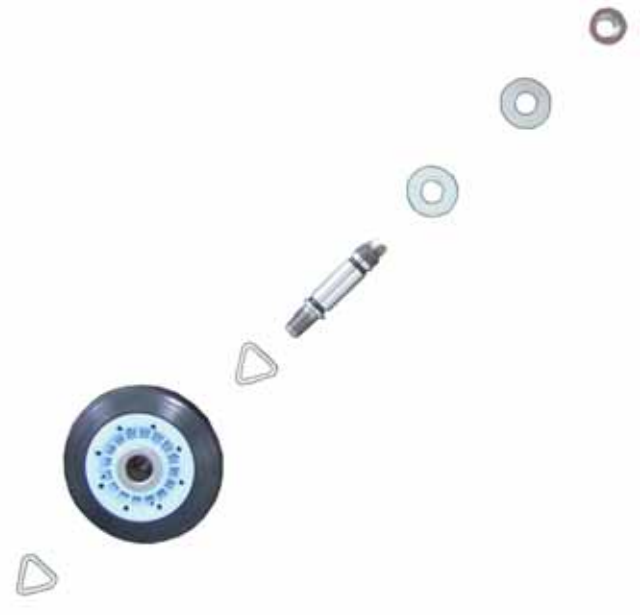
Caution: To prevent damage to the dryer, the drum must be installed with the blue threaded felt seal toward the back of the dryer.



Drum Rollers

The stainless steel drum rotates on 4 drum rollers (2 on the front drum support and 2 on the rear drum support).

Each drum roller comes as a complete assembly.



To remove the drum rollers:

1. Remove the front bulkhead to access the front drum rollers. Remove the drum (See ***Drive Belt and Drum***), to access the rear drum rollers.
2. Each drum roller is held in place by a plastic triangular clip. Remove the triangular clip with a small flat-bladed screwdriver and slide the drum roller off the roller shaft.

To remove the left side drum roller shaft from the front bulkhead:

1. Remove the front bulkhead. (See ***Front Bulkhead***.)
2. Remove the 9/16-in. hex nut that attaches the shaft to the front bulkhead.

To remove the right side drum roller shaft from the front bulkhead:

1. Remove the front bulkhead. (See ***Front Bulkhead***.)
2. Remove the lint filter.
3. Disconnect the sensor wires.

Note: The sensor rods are part of the lint filter housing. To replace the sensor rods, the lint filter housing must be replaced.

(Continued Next Page)

4. Remove the 2 Phillips-head screws from the metal duct.
5. Pull the metal duct off the lint filter housing.
6. Remove the 2 Phillips-head screws from the lint filter housing.

7. Lift the lint filter housing and remove it from the front bulkhead.

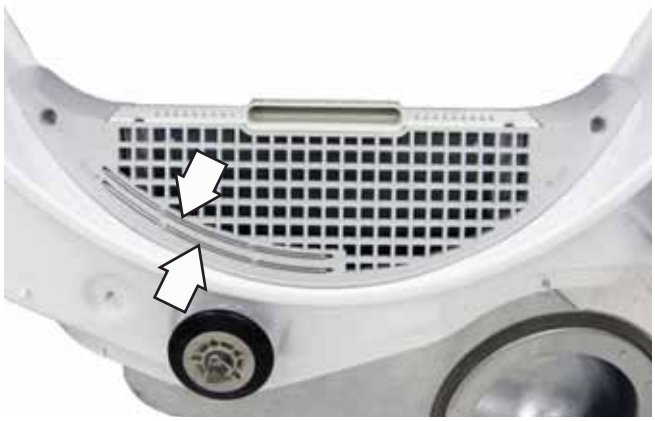
8. Remove the 9/16-in. hex nut that attaches the shaft to the front bulkhead.

To remove the drum roller shaft from the rear bulkhead:

1. Remove the drum. (See ***Drive Belt and Drum***.)
2. For front service, tilt the bottom of the rear bulkhead inward from the dryer frame (See ***Rear Bulkhead***.), or remove the back panel for rear service. (See ***Back Panel***.)
3. Remove the 9/16-in. hex nut that attaches the drum roller shaft to the rear bulkhead.

Moisture Sensor

The moisture-sensing circuit consists of 2 sensor rods. They are mounted beneath the lint filter on the drum side of the front bulkhead.



Note: The 2 sensor rods in the front bulkhead are not replaceable. To replace the sensor rods, replace the lint filter housing. (See ***Drum Rollers***.)

- The sensor rods are connected to the main control board. The rods are spaced approximately 1/2 inch apart, creating an open circuit to the control.
- The control board utilizes a low-voltage capacitor that charges to approximately 5 VDC when the circuit is open and discharges to less than 1 VDC when the circuit is shorted.
- When wet clothes tumble across the 2 rods, the clothes create a very low resistance between the rods, discharging the capacitor.
- As the clothes become dry, their resistance value increases and the charge across the capacitor builds to approximately 5 VDC.
- Proper leveling of the dryer is vital for accurate sensor drying. If the front of the dryer is raised too high, clothes will tumble toward the rear of the drum, preventing contact with the sensor rods. This could produce a false dryness reading.

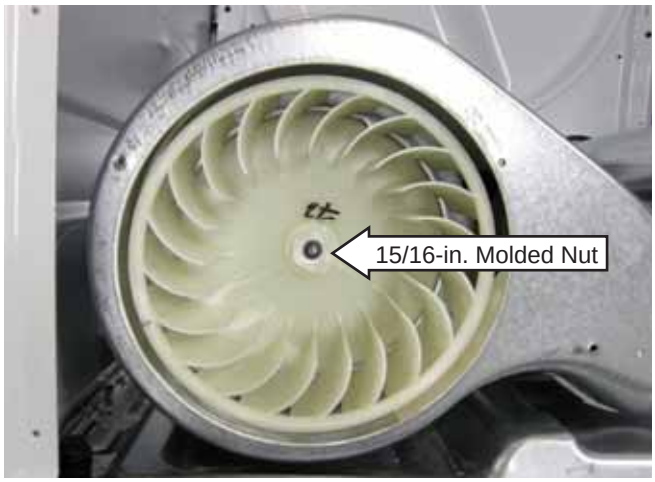
Belt Switch

The belt switch is located to the right of the drum motor and is attached to the switch bracket with 2 Phillips-head screws. The switch is activated by the movement of the idler arm. If the drive belt breaks or comes off of the idler pulley, the belt switch opens power to the drum motor, interrupting dryer operation. The drum must be removed to access the belt switch and wiring. (See ***Drive Belt and Drum***.)

(Shown with exhaust tube removed for clarity.)

Blower Wheel

The blower wheel is held to the motor shaft with a 15/16-in. (24-mm) molded nut. To remove the blower wheel, it is not necessary to remove the motor from the dryer.



To remove the blower wheel:

Note: Non-long vent model is shown below. The procedure for the long vent model is similar.

1. Remove the drum. (See ***Drive Belt and Drum***.)
2. On non-long vent models, unlock the idler arm from the idler arm bracket.
3. Hold the motor shaft from turning and use a 15/16-in. (24-mm) socket to rotate the blower wheel clockwise from the motor shaft.

Drum Motor

The drum motor is a single-speed, 120-VAC, 1/3-hp, 5.0-amp rated motor with an automatic reset overload protector. The overload protector is an internal component of the motor and cannot be replaced separately. The motor contains a centrifugal switch that serves 2 purposes:

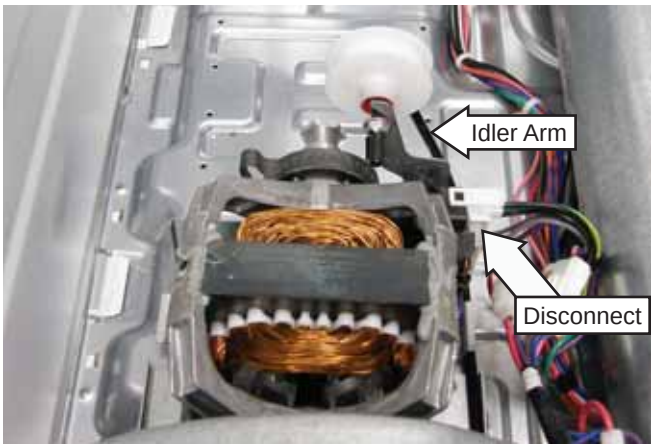
- Disengages the motor start winding.
- Closes the circuit contacts for the heat source.

The switch is an internal component of the motor and cannot be replaced separately.

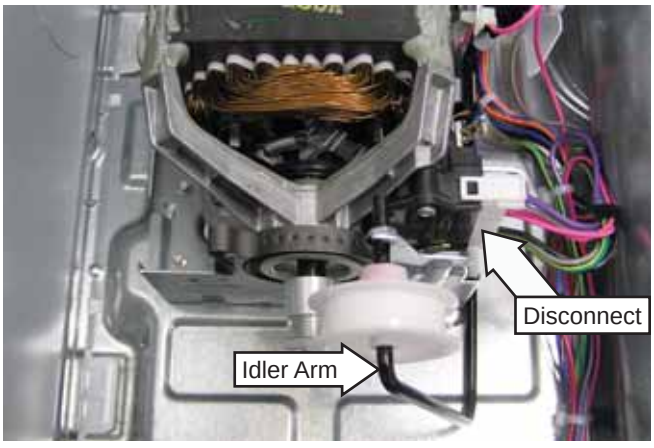
To remove the drum motor:

1. Remove the drum. (See ***Drive Belt and Drum***.)
2. Unlock the idler arm from the idler arm bracket.
3. Disconnect the motor wire harness.

Non-Long Vent Model

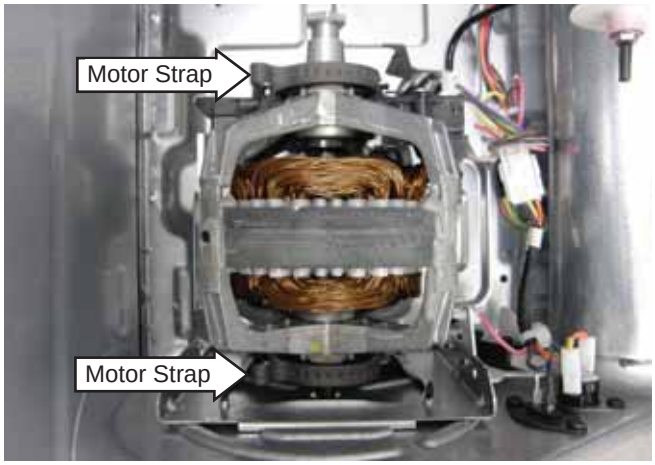


Long Vent Model

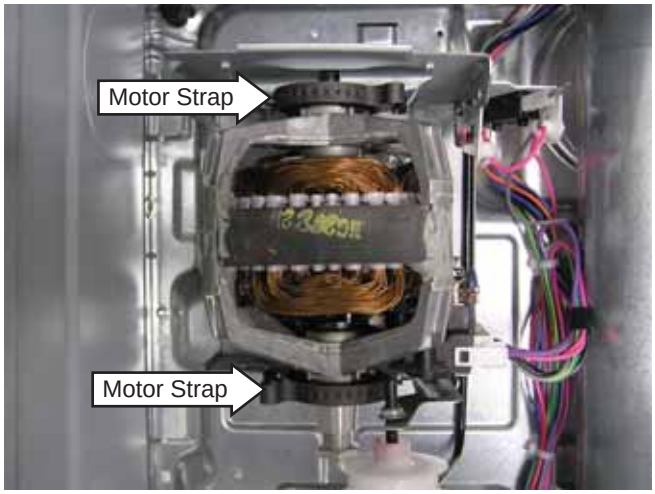


4. On non-long vent models, remove the blower wheel. (See ***Blower Wheel***.)
5. Using a flat blade screwdriver, compress and then remove the front and rear motor straps from the motor bracket.
6. Lift the motor from the motor bracket.

Non-Long Vent Model



Long Vent Model

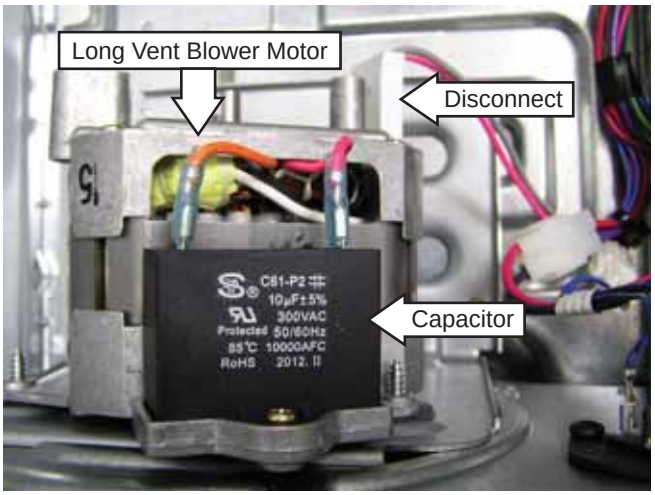


Long Vent Motor

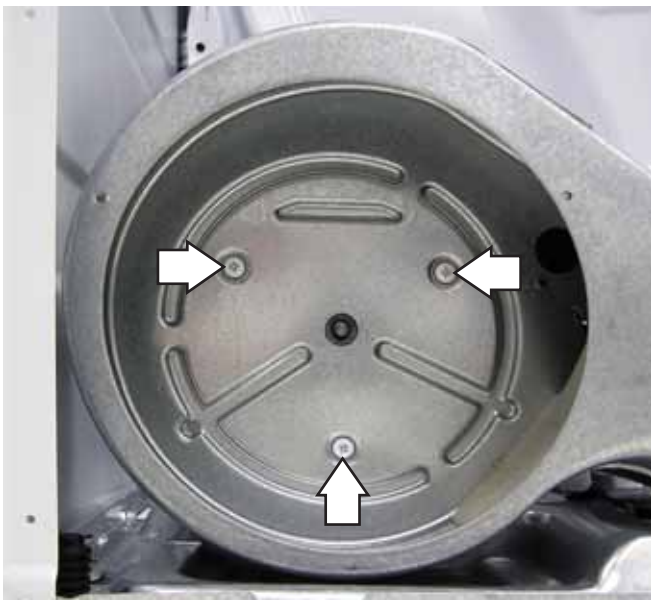
The long vent motor operates on 120-VAC and rotates at 300 RPM. The motor has an approximate resistance value of 15 Ω. A 10 ufd capacitor is attached to the motor. The motor is attached to the back of the blower housing with 3 Phillips-head screws.

To remove the long vent blower motor:

1. Remove the blower wheel. (See ***Blower Wheel***.)
2. Disconnect the motor wire harness.



3. Remove the 3 Phillips-head screws that attach the motor to the blower housing.
4. Pull the motor out from the back of the blower housing.



Heater Assembly

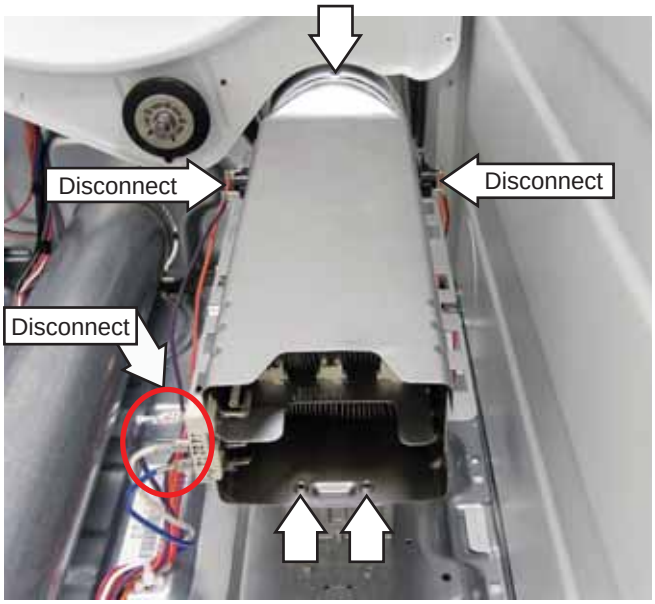
WARNING: Sharp edges may be exposed when servicing the dryer. Use caution to avoid injury. Wear Kevlar® gloves or equivalent protection.

The heater assembly is located below the drum on the right side of the chassis. It consists of 2 open-wire elements, each fastened inside a single housing. The elements are wired in parallel with each other and controlled by a relays on the control board.

When energized, each element draws approximately 12.5 amps at 240 VAC. Each element has a resistance value of approximately 20.6 Ω. When both are energized, the elements draw approximately 25 amps at 240 VAC. The 2 inner elements have a combined resistance value of approximately 41.2 Ω.

To remove the heater assembly:

1. Remove the drum. (See ***Drive Belt and Drum***.)
2. Note the wire locations, then disconnect all wiring from the heater assembly.
3. Remove the Phillips-head screw from the top on the heater assembly.
4. Remove the two 1/4-in. hex-head screws that attach the heater assembly to the chassis.



Burner Assembly and Gas Conversion

The burner assembly consists of the gas valve with attached gas inlet pipe, gas valve coils, and burner.

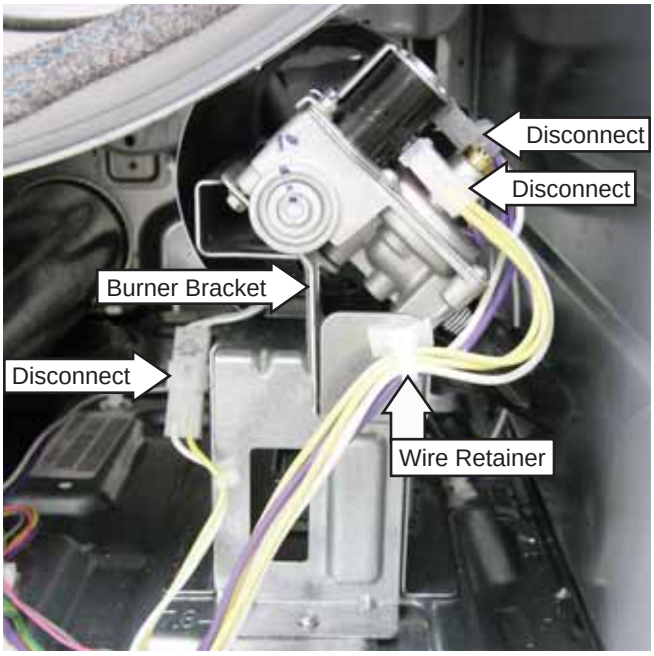
To convert the dryer from natural gas to LP gas, refer to conversion kit Part #WE25M87. To convert the dryer from LP gas to natural gas to, refer to conversion kit Part #WE25M88.

Gas Valve

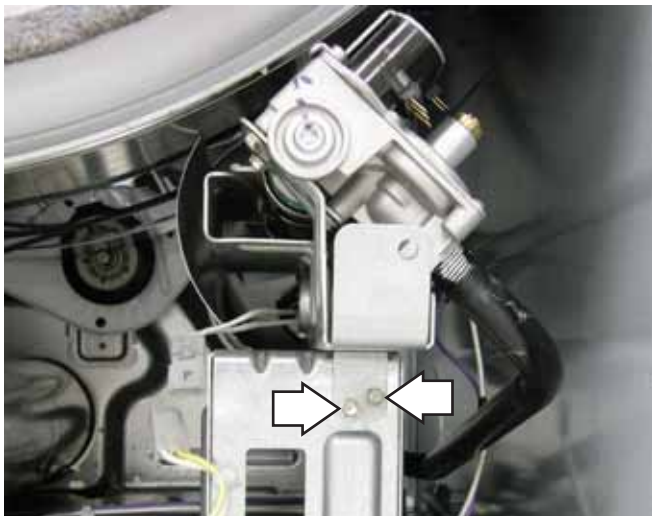
The gas valve is attached to the burner bracket.

To remove the gas valve:

1. Shut off the gas supply to the dryer.
2. Remove the front bulkhead. (See ***Front Bulkhead***.)
3. Disconnect the ignitor wire harness.
4. Disconnect the wire harness from both coils.
5. Remove the wire retainer from the front of the burner bracket.



6. Remove the two 1/4-in. hex-head screws from the front of the burner bracket.
7. Pull the burner and the connected gas inlet pipe as an assembly out from the dryer.



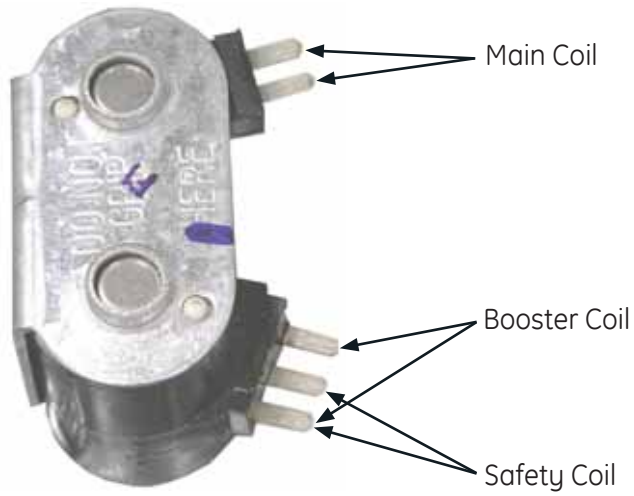
8. Remove the three 1/4-in. hex head screws that attach the gas valve to the burner bracket.

Gas Valve Coils

The burner assembly gas valve utilizes 2 coils. A double coil (safety and booster coils combined) and a single main coil are located on top of the gas valve in front of the combustion chamber opening. The coils can be replaced separately.

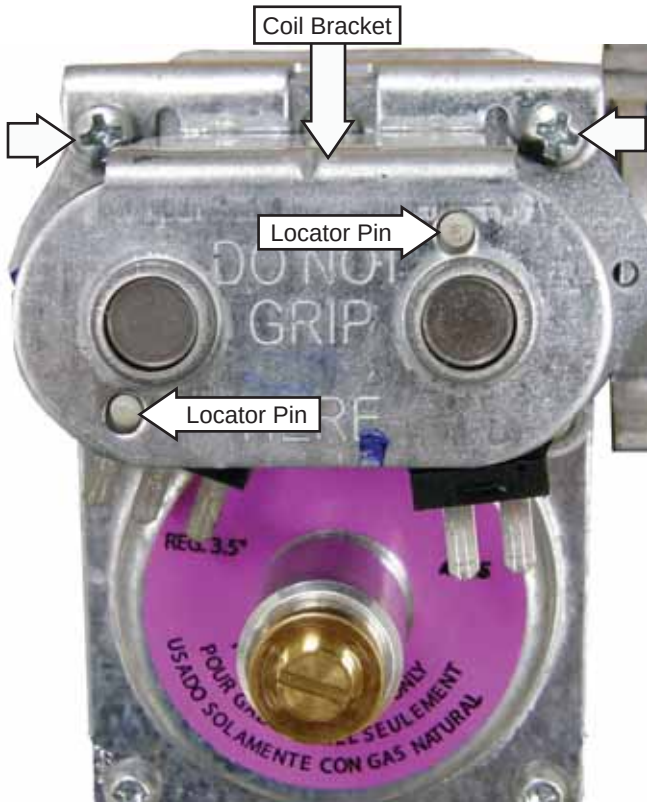
Gas valve coil assembly resistance values:

- Safety coil terminals - 1400 Ω
- Booster coil terminals - 580 Ω
- Main coil terminals - 1300 Ω



To remove the double and main coils:

1. Remove the burner assembly from the dryer. (See *Gas Valve* and follow steps 1 through 7.)
2. Note the position of the locator pins inserted in the coil bracket.
3. Remove the 2 Phillips-head screws that attach the coil bracket to the valve body.



4. Lift the coil bracket vertically.
5. Lift coils vertically from valve assembly.

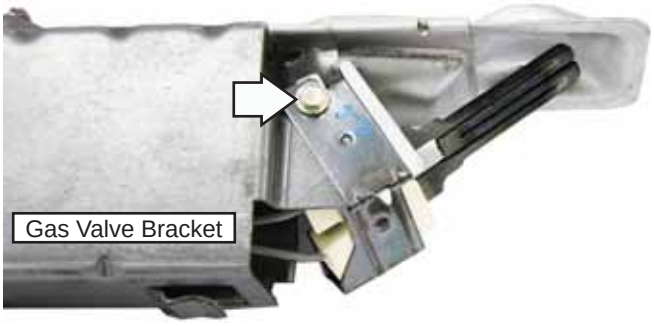
Note: Upon assembly, ensure the locator pins are inserted into the holes provided in the coil bracket.

Ignitor

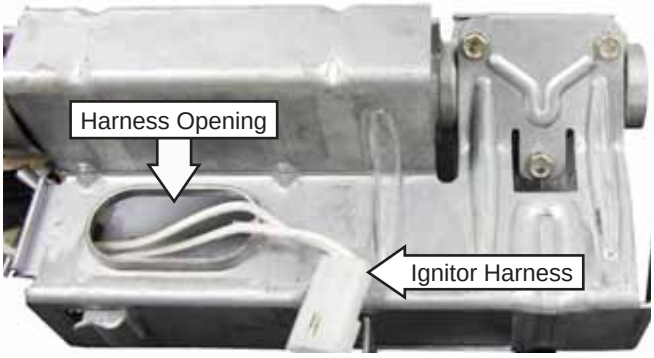
WARNING: Sharp edges may be exposed when servicing the dryer. Use caution to avoid injury. Wear Kevlar® gloves or equivalent protection.

The ignitor is located at the end of the burner assembly in the combustion chamber opening and has a maximum rating of 4 amps. The ignitor has an approximate resistance value of 40 to 200 Ω.

The ignitor is attached to the gas valve bracket with a Phillips-head screw. To access the ignitor, it is necessary to remove the burner assembly. (See ***Gas Valve*** and follow steps 1 through 7.)



Note: When installing the ignitor, make sure the ignitor wiring harness is routed through the opening in the burner bracket.



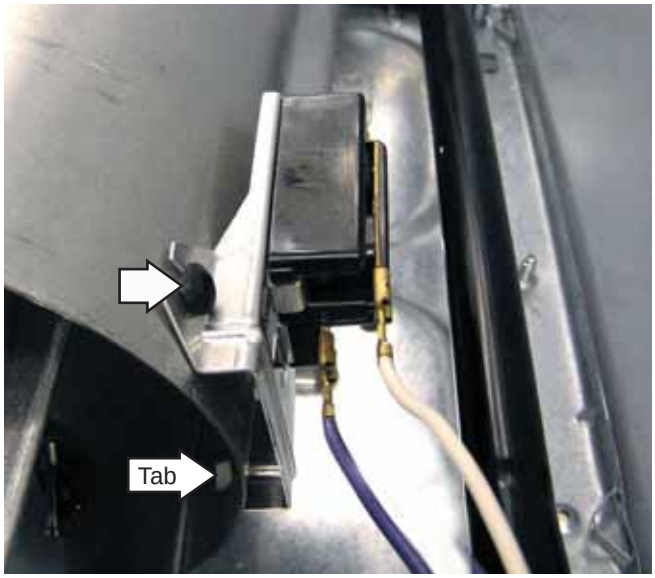
Caution: The ignitor is very fragile. To prevent breaking the ignitor, care must be taken when installing the burner assembly.

Flame Detector

The flame detector is attached to the right side of the combustion chamber.

To remove the flame detector:

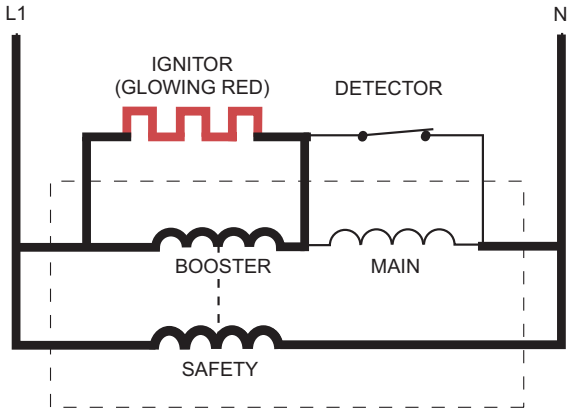
1. Remove the front bulkhead. (See ***Front Bulkhead***.)
2. Disconnect the 2 wires from the flame detector.
3. Remove the flame detector from the tab at the bottom.



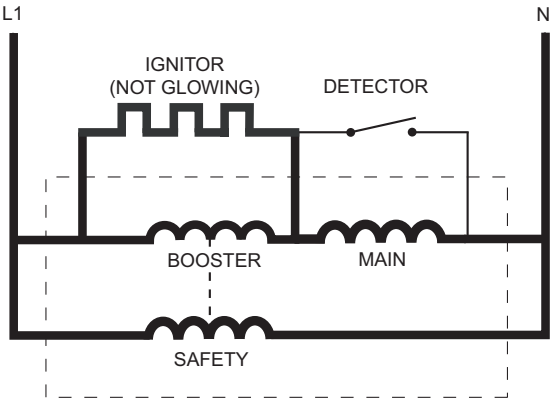
Note: Upon reassembly, ensure the tab at the bottom of the flame detector is inserted into the slot located on the combustion chamber.

Ignitor Circuit Operation

The glo-bar ignitor circuit is made up of the following components: a gas valve with safety and main valves, ignitor, and a flame detector. The safety valve is actuated by a double coil that comprises a safety coil (resistance approximately 1400 ohms) and a booster coil (resistance approximately 580 ohms). Both coils are needed to open the safety valve. Once energized, the safety coil alone will hold the valve open. The main valve has a single coil (resistance approximately 1300 ohms).



Ignitor On



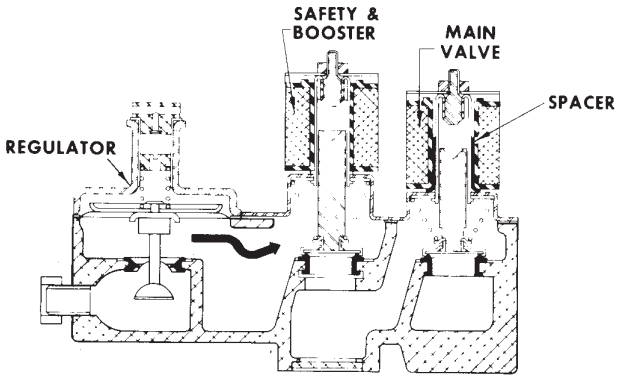
Gas Valve Open

The flame detector (< 1 ohm) is mounted on the combustion chamber. It is normally in the closed position (N.C.). The flame detector is opened by the radiant heat produced by the glo-bar and once open, the flame detector will be held open by the radiant heat produced by the gas flame.

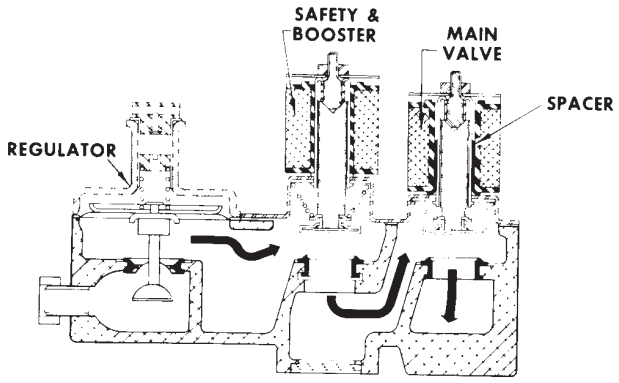
When the control system calls for heat, the following circuits are energized:

1. N- through detector, ignitor, outlet control backup, inlet safety thermostats to L1
2. N- through detector, booster coil, outlet control backup, inlet safety thermostats to L1
3. N- through safety coil and outlet control backup, inlet safety thermostats to L1

When the glo-bar is heating, the booster and safety coils are both energized and will open the safety valve. The main valve is closed as its coil is bypassed by the N.C. flame detector. When the glo-bar reaches ignition temperature, in approximately 60 seconds or less, the flame detector is heated and opens, placing the main coil in series with the glo-bar. The main valve opens, allowing gas to flow into the combustion chamber and ignite. The main coil, now in series with the glo-bar, causes the glo-bar to cool down. However, the flame detector is held open by the radiant heat from the gas flame. The booster coil is now also in series with the main coil and is essentially inoperative. Should a momentary power failure occur, the gas valve will shut off and an attempt to restart will not occur until the flame detector cools and resets, in approximately 30 seconds.



Valves Closed



Valves Open

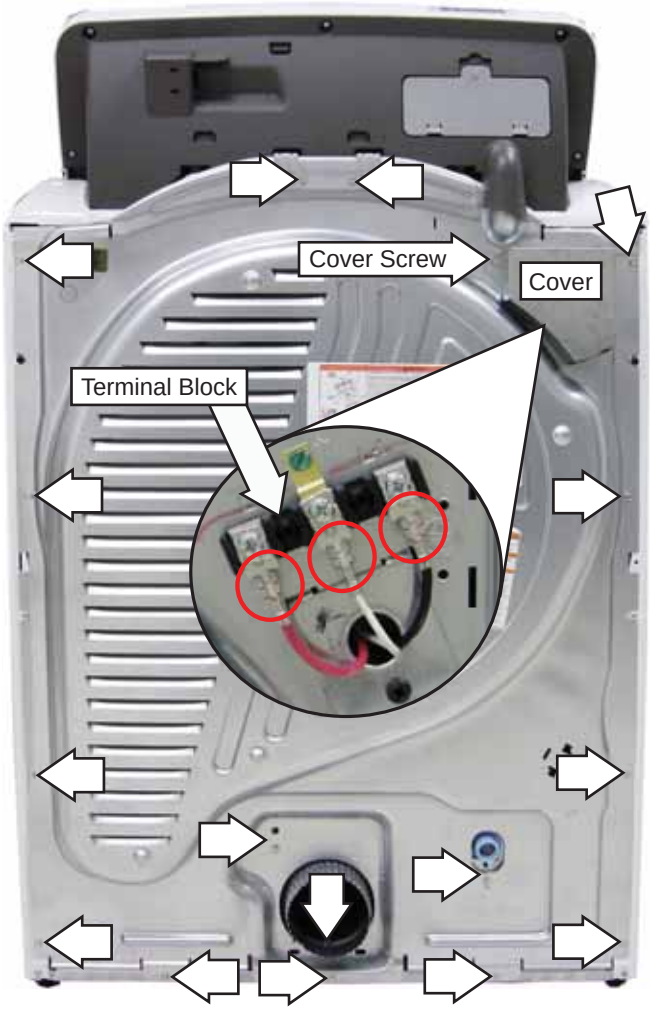
Back Panel

It is necessary to remove the back panel to allow access to the inlet thermistor, high limit and safety thermostats (gas model), water tube, spray nozzle housing, rear drum roller shafts, and wire harnesses.

Electric Model

To remove the back panel:

1. Remove the 1/4-in hex-head screw, then open and remove the terminal block cover.
2. Remove the power cord from the terminal block.
3. Mark and disconnect the 3 dryer wires from the terminal block.
4. Remove the sixeen 1/4-in. hex-head screws that attach the back panel to the dryer.



Gas Model

The back panel is attached with sixteen 1/4-in. hex-head screws. The power cord wire harness can be disconnected after removing the back panel.

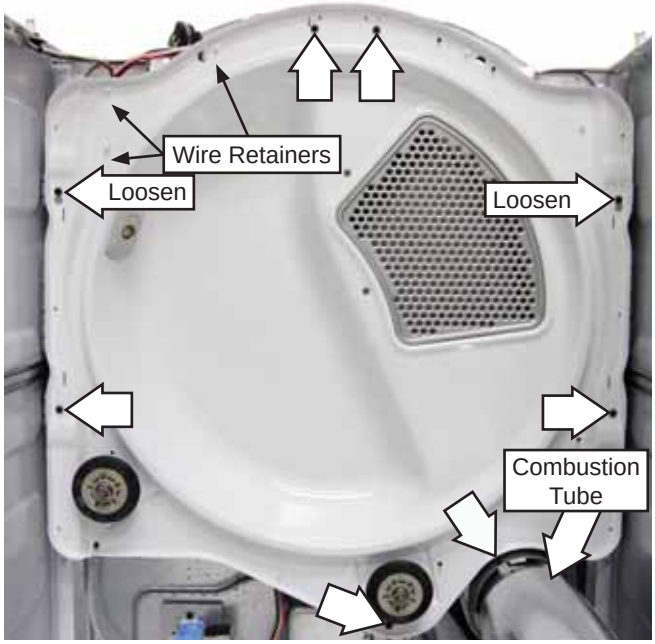
Rear Bulkhead

The rear bulkhead is located between the drum and the back panel. To allow front access to components attached to the rear bulkhead, it is necessary to remove and tilt the bulkhead inward from the dryer frame.

Electric Model

To remove the rear bulkhead:

1. Remove the drum. (See ***Drive Belt and Drum***.)
2. Remove the Phillips-head screw that attaches the combustion tube to the inlet vent.
3. Remove the top 2 and bottom 3 Phillips-head screws from the bulkhead.
4. Loosen, but do not remove the 2 Phillips-head screws from the keyhole locations.
5. Remove the 3 plastic wire retainers from the top left side of the bulkhead.
6. Lift and maneuver the bulkhead off the middle screws and combustion tube.
7. To access the inlet thermistor, water tube, spray nozzle housing, and wire harnesses, tilt the top of the bulkhead inward from the dryer frame.
8. To access rear drum roller shafts, tilt the bottom of the bulkhead inward from the dryer frame.
9. To remove the bulkhead from the cabinet, remove all wiring and water tubing attached to the back of the bulkhead.



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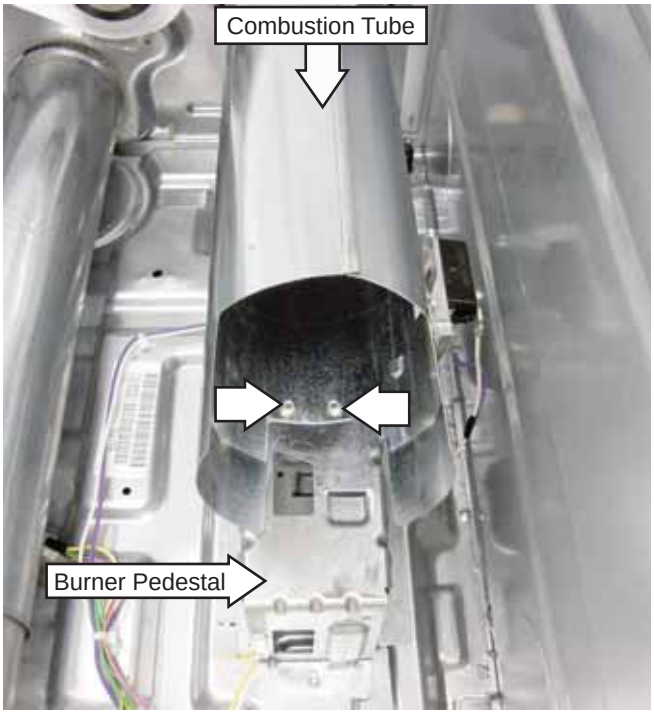
Gas Model

To remove the rear bulkhead:

1. See *Electric Model*, To remove the rear bulkhead, and follow steps 1 through 5.
2. Remove the gas valve. (See *Gas Valve*.)
3. Remove the two 1/4-in. hex-head screws and the combustion tube from the burner pedestal.



4. Lift and maneuver the rear bulkhead off the middle screws and combustion tube.
5. To access the inlet thermistor, high limit and safety thermostats, water tube, spray nozzle housing, and wire harnesses, tilt the top of the rear bulkhead inward from the dryer frame.
6. To access the rear drum roller shafts, tilt the bottom of the rear bulkhead inward from the dryer frame.
7. To remove the rear bulkhead from the cabinet, remove all wiring and water tubing attached to the back of the rear bulkhead.

Inlet Safety Thermostat

On electric models, the inlet safety thermostat is located near the back of the heater housing, on the left side. On gas models, the inlet safety thermostat is located on the top right side of the inlet duct, below the high limit thermostat. The thermostat monitors incoming air temperature.

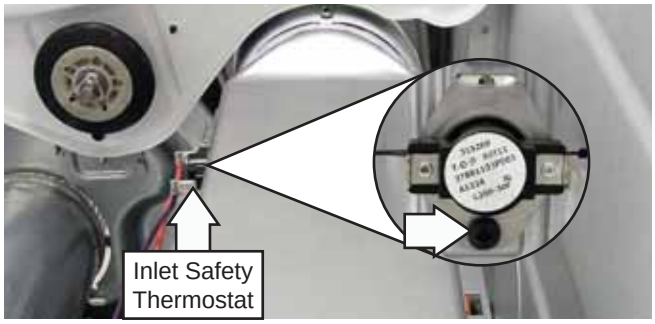
If the thermostat reaches a temperature beyond its maximum temperature rating, it will trip and disable power to the heating elements (electric model) or burner assembly (gas model).

The inlet safety thermostat opens at 260°F (127°C) and will automatically reset at 230°F (110°C).

To access the inlet safety thermostat, it is necessary to remove the drum (electric model). On gas models, remove the rear bulkhead for front service or back panel for rear service.

The thermostat is attached to the heater housing or inlet duct with a Phillips-head screw and a tab. Two wires are connected to the thermostat.

Electric Model



Gas Model

Inlet Control Thermistor

The inlet control thermistor is located on the top right side of the inlet duct. The thermistor monitors incoming air temperature and relays the information to the control board.

The thermistor has a negative coefficient. As the temperature increases, the thermistor's resistance decreases.

Inlet control thermistor approximate resistance values:

- 59.4 - 65.7K Ω at 69°F (20°C)
- 47.6 - 52.4K Ω at 77°F (25°C)
- 38.4 - 42K Ω at 86°F (30°C)

Operation of the inlet control thermistor can be checked by using the inlet thermistor test in service test mode. (See *Service Test Mode*.)

Specific failures associated with the inlet control thermistor can initiate error codes F01 and F03. (See *Service Test Mode*.)

To access the inlet control thermistor, it is necessary to remove the rear bulkhead for front service or back panel for rear service.

The thermostat is attached to the inlet duct with a Phillips-head screw. A wire harness is connected to the thermistor.

Note: Electric model safety and high limit thermostats not located on the air duct.

Gas Model

High Limit Thermostat

On electric models, the high limit thermostat is located near the back of the heater housing, on the right side. On gas models, the high limit thermostat is located on the top right side of the inlet duct, between the inlet thermistor and the inlet safety thermostat. The thermostat monitors incoming air temperature.

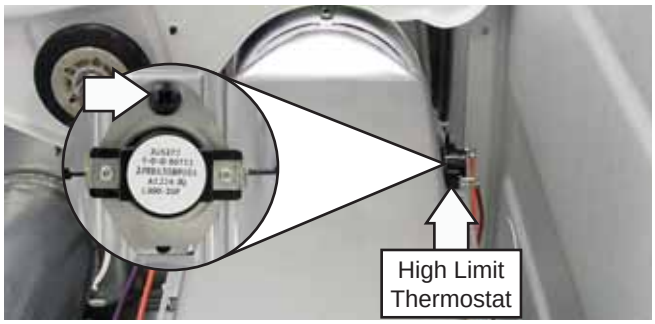
If the thermostat reaches a temperature beyond its maximum temperature rating, it will trip and disable power to the heating elements (electric model) or burner assembly (gas model).

The high limit thermostat opens at 300°F (149°C) and will automatically reset at 270°F (132°C).

To access the high limit thermostat, it is necessary to remove the drum (electric model). On gas models, remove the rear bulkhead for front service or back panel for rear service.

The thermostat is attached to the heater housing or inlet duct with a Phillips-head screw and a tab. Two wires are connected to the thermostat.

Electric Model



Gas Model

Outlet Control Thermistor

The outlet control thermistor is located on the back of the blower housing. The outlet control thermistor measures outgoing air temperature and provides temperature change information to the control board.

The thermistor has a negative coefficient. As the temperature increases, the thermistor's resistance decreases.

Outlet control thermistor approximate resistance values:

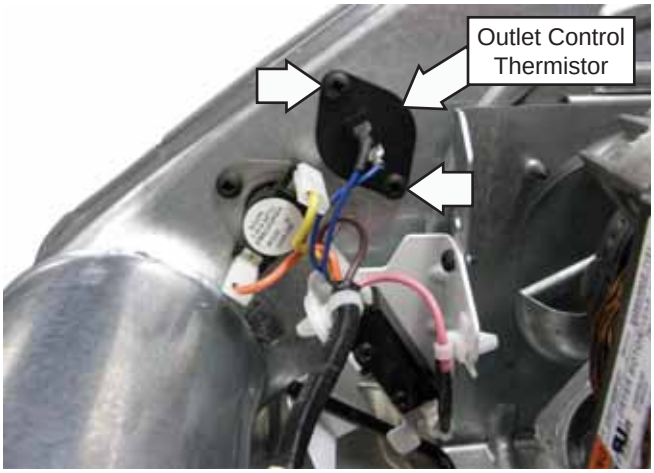
- 118 - 122K Ω at 69°F (20°C)
- 98 - 102K Ω at 77°F (25°C)
- 78 - 82K Ω at 86°F (30°C)

Operation of the outlet control thermistor can be checked by using the outlet thermistor test in service test mode. (See ***Service Test Mode***.)

Specific failures associated with the outlet control thermistor can initiate error codes F02 and F04. (See ***Service Test Mode***.)

To access the outlet control thermistor, it is necessary to remove the drum.

The thermistor is attached to the blower housing with 2 Phillips-head screws. Two wires are connected to the thermistor.



Outlet Control Thermostat

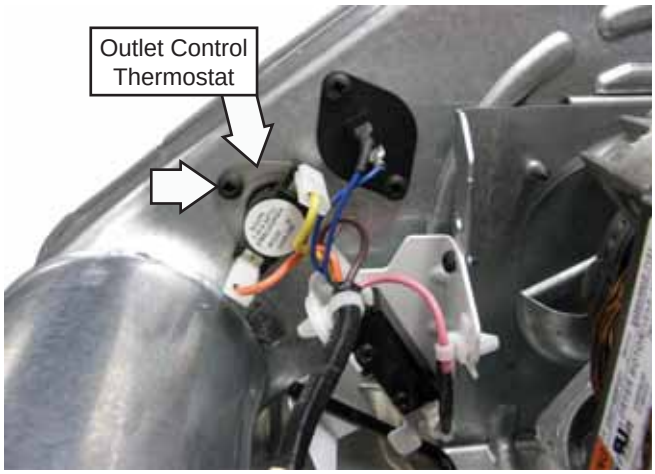
The outlet control thermostat is located on the back of the blower housing. The outlet control thermostat measures outgoing air temperature and provides temperature change information to the control board.

If the thermostat reaches a temperature beyond its maximum temperature rating, it will trip and disable power to the heating elements (electric model) or burner assembly (gas model).

The outlet control backup thermostat opens at 145°F (63°C) and will automatically reset at 130°F (54°C).

To access the outlet control thermostat, it is necessary to remove the drum.

The thermostat is attached to the blower housing with a Phillips-head screw and a tab. Two wires are connected to the thermostat.



Control Board Assembly

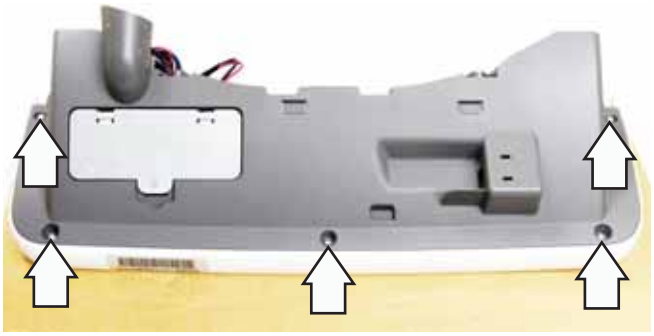
The control board assembly is mounted in a plastic housing that is attached to the inside of the control panel. It consists of 2 circuit boards connected by a wire spine. The boards and the plastic housing are replaced as an assembly.

Operation of the control board assembly can be checked by using the service test mode. (See *Service Test Mode*.)

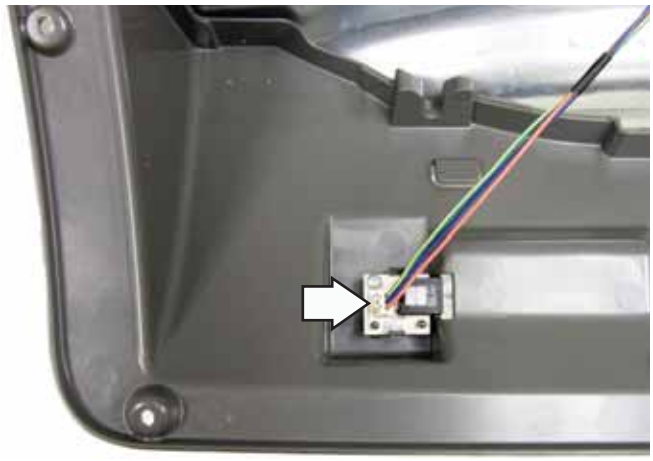
Error codes that are specific to the control board can initiate error codes F05 and E06. (See *Service Test Mode*.)

To remove the control board assembly:

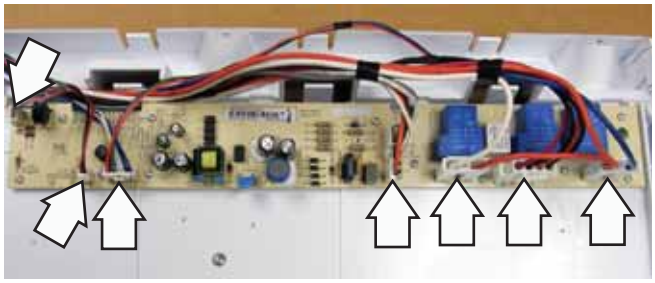
1. Remove the control panel. (See *Control Panel* and follow steps 1 through 4.)
2. Pull the control knob straight out from the control panel.
3. Place a protective surface on the top panel.
4. Lay the control panel face down on the protected top panel.
5. Remove the 5 Phillips-head screws and the control panel rear cover.



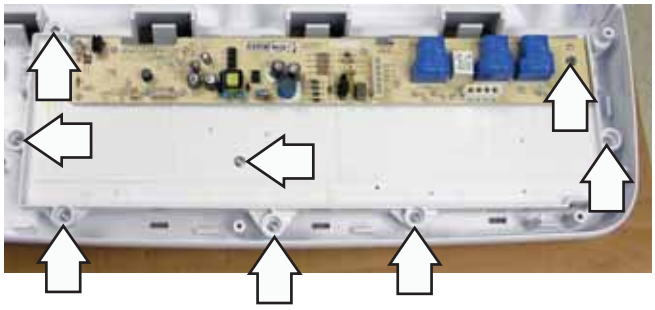
6. Disconnect the DMS wire harness from the control panel rear cover.



7. Disconnect the wire harnesses from the control panel.



8. Remove the 8 Phillips-head screws and the control board frame from the control panel.



Misting Nozzle

The misting nozzle is located inside the dryer on the left side of the rear bulkhead. The misting nozzle consists of a brass orifice and a fine filter screen. If the orifice should become plugged or restricted, it should not be cleaned. Replace a plugged or restricted misting nozzle.

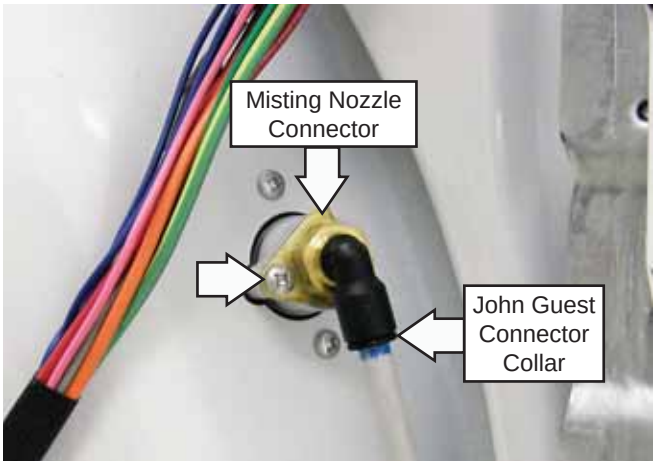
To access the misting nozzle, it is necessary to remove the drum. (See ***Drive Belt and Drum***.) A 7/16" or 11-mm nut driver can be used to unscrew the misting nozzle from the nozzle housing.

Note: Teflon® tape will be included with the replacement misting nozzle.

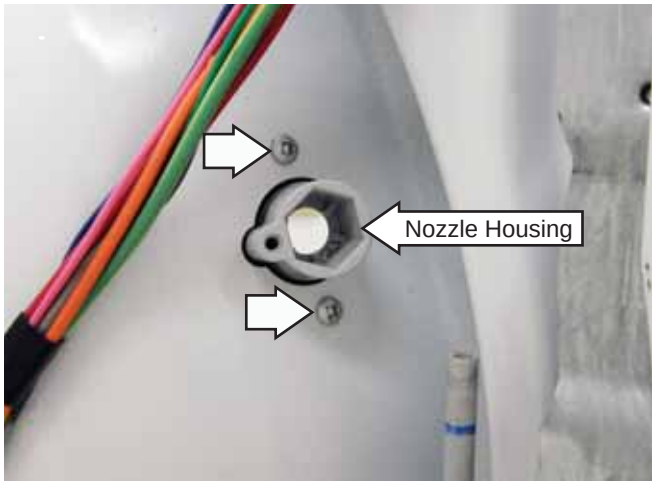
Misting Nozzle with Teflon Tape Applied

To remove the misting nozzle connector and housing:

1. Remove the misting nozzle. (See ***Misting Nozzle***.)
2. For front service, tilt the top of the rear bulkhead inward from the dryer frame. (See ***Rear Bulkhead***.)
3. For rear service, remove the back panel. (See ***Back Panel***.)
4. Press on the John Guest connector collar and release the water line from the misting nozzle connector.
5. Remove the Phillips-head screw that attaches the misting nozzle connector to the nozzle housing.
6. Pull the misting nozzle connector out from the nozzle housing.



7. Remove the 2 Phillips-head screws that attach the nozzle housing to the rear bulkhead.



Water Valve

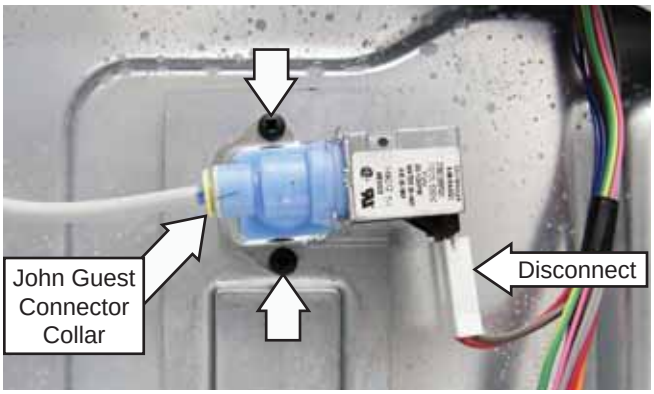
WARNING: The water valve is NOT grounded and may present a risk of electric shock during servicing. Disconnect electric power prior to servicing.

The water valve supplies water to the misting nozzle on demand from the control board. The water valve has a flow rate of 1/3 gallon per minute, operates on 120 VAC, and has an approximate coil resistance of 560 Ω.

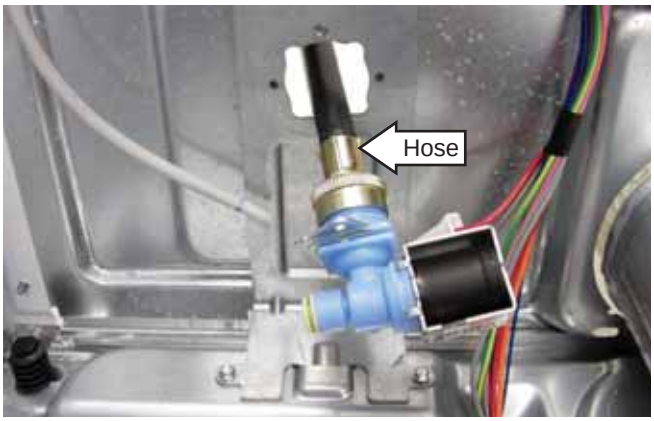
The water valve is front or rear serviceable. It is attached to a bracket that is attached to the floor of the dryer.

To remove the water valve (front service):

1. Turn off water supply to the dryer.
2. Remove the drum. (See ***Drive Belt and Drum***.)
3. Disconnect the coil wire harness.
4. Press on the John Guest connector collar and release the water line from the water valve.
5. Remove the 2 Phillips-head screws that attach the valve to the valve bracket.



6. Pull the valve and the attached water supply hose into the dryer.
7. Disconnect the hose from the valve.

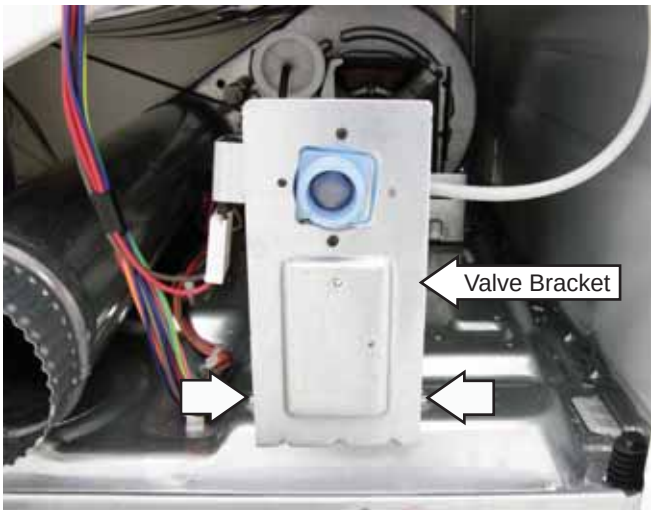


To remove the water valve (rear service):

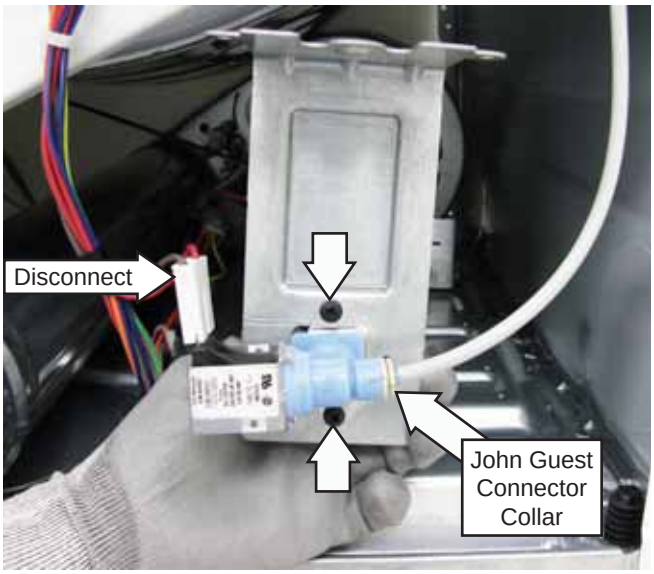
1. Turn off water supply to the dryer.
2. Disconnect the hose from the valve.
3. Remove the back panel. (See ***Back Panel***.)
4. Remove the two 1/4-in. hex-head screws that attach the valve bracket to the dryer floor.

Note: In the following step, the bottom of the valve bracket is inserted in a slot in the dryer floor.

5. Slide the valve bracket out from the dryer floor.



6. Invert the valve bracket and disconnect the coil wire harness.
7. Press on the John Guest connector collar and release the water line from the water valve.
8. Remove the 2 Phillips-head screws that attach the valve to the valve bracket.



Service Test Mode

The dryer control has a service test mode that can be utilized by the service technician in order to test critical components and to access error codes. This test mode will help the service technician to quickly identify certain failed or improperly operating dryer components.

To enter the service test mode and navigate:

From idle state, simultaneously press and hold the *START* button and rotate cycle select knob 180 degrees (8 clicks) and release the *START* button.

Upon entering the service mode, the control will be in service test selection mode and display the first test number (t1). Rotating the knob clockwise (CW) shall increment the test numbers in the display. Rotating the knob counterclockwise (CCW) shall decrement the test number in the display.

Once the test number is selected, pressing *START* will begin the selected test. To exit that test, rotate the cycle selection knob either CW or CCW.

To exit the service test mode:

Pressing the *Power* button will exit the machine from the service test mode.

The following tables shows the diagnostic tests and the button sequence that is required to perform them:

SERVICE TEST MODE			
DISPLAY	MODE	PRESS START	REMARK
t1	DRYER MODEL	see DRYER MODEL CODE	Second press start displays Jumper model.
t2	SOFTWARE and EEPROM VERSION	SOFTWARE VERSION NUMBER	Software programed in the Board
t3	XML Check	XML version number	Checks Board Memory
t4	USER INTERFACE TEST	LIGHT ON ALL SEGMENT	STOP WHEN RELEASE START
t5	ERROR CODE see dryer error code table	Clears displayed error code and displays next most recent error code.	See Section - Error Code (t5)
t6	OUTLET THERMISTOR	Display the Outlet thermistor temperature	First start allows entering in the mode
t7	INLET THERMISTOR	Display the inlet thermistor temperature	
t8	MOISTURE SENSOR	Display moisture sensor voltage	
t9	DOOR OPEN/ DOOR CLOSED		Displays “do” if the door is opened or “dc” if door is closed.

(Continued Next Page)

SERVICE TEST MODE			
DISPLAY	MODE	PRESS START	REMARK
ta	CleanSpeak Test	Checks the communications to the washer	Will display "On" if OK. Will display "Er" if no response
tb	WATER VALVE TEST	Toggles water valve and motor states	If water valve and motor are on, then "On" is displayed otherwise "Of" is displayed.
tc	RESTORE EEPROM	Default EEPROM values are restore	If EEPROM restoration is successful, then "EP" is displayed, if error occurs, then "Er" is displayed.
td	Set Model	Blinks LEDs waiting for input. Three sec press of Time+Level keys. Set model with Time/Level keys, then Press and Hold Start key for 3 s.	If successful, shows UI in Idle mode. Exits Service Mode.

Dryer Model Codes

DRYER MODEL NUMBER	MODEL DESCRIPTION		MODEL CODE ID#
GTDP740ED0WW	Electric	7.8 cu ft, 2 digit, Led	1 E
GTDP740GD0WW	Gas	7.8 cu ft, 2 digit, Led	2 G
GTDL740ED0WW	Electric	7.8 cu ft, Long Vent, 2 digit, Led	3 E
GTDL740GD0WW	Gas	7.8 cu ft, Long Vent, 2 digit, Led	4 G
GTDS810ED0WS GTDS815ED0MC GTDS820ED0WS GTDS825ED0MC GHDS830ED0WS GHDS835ED0MC	Electric	7.8 cu ft, 2 digit, Led Icon Med (810, 815) Led Icon Large (820, 830, 835)	5 E
GTDS810GD0WS GTDS815GD0MC GTDS820GD0WS GTDS825GD0MC GHDS830GD0WS GHDS835GD0MC	Gas	7.8 cu ft, 2 digit, Led Icon Med (810, 815) Led Icon Large (820, 830, 835)	6 G
GTDS850ED0WS GTDS855ED0MC	Electric	7.8 cu ft, 3 digit, Led Icon Large	7 E
GTDS850GD0WS GTDS855GD0MC	Gas	7.8 cu ft, 3 digit, Led Icon Large	8 G
GTDS860ED0WS GTDS865ED0MC	Electric	8.3 cu ft, 3 digit, Led Icon Large	9 E
GTDS860GD0WS GTDS865GD0MC	Gas	8.3 cu ft, 3 digit, Led Icon Large	10 G

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Error Codes

To check error codes:

1. Enter field service mode.
2. Index to the Error Codes function (t6) by turning the knob. If there is more than one error, pressing the *START* button will clear the displayed error code from the fault log and cause the next most recent error to be displayed.

Control shall display error on SSD (7-segment display) model and LED model as per table.

ERROR CODE	DESCRIPTION
"--" or "---"	No error
F01	Inlet thermistor short circuit. If temperature is greater than 120°F replace thermistor or review connection; if temperature less than or equal to 120°F clear error.
F02	Outlet Thermistor short circuit. If temperature is greater than 120°F replace thermistor or review connection; if temperature less than or equal to 120°F clear error.
F03	Inlet Thermistor Open circuit. If temperature is less than 40°F replace thermistor or review connection; if temperature greater than or equal to 40°F clear error.
F04	Outlet Thermistor Open circuit. If temperature is less than 36°F replace thermistor or review connection; if temperature greater than or equal to 36°F clear error.
F05	EEPROM Error. Replace the board.
F06	Stuck button. If a button is pressed longer that a minute this error is set; if no button stuck clear error.
F07	*Miss-wire. Neutral wire improperly connected; Please ensure proper Neutral to center terminal. If connection has been corrected; clear code as necessary.
F08	Door Switch Stuck Closed. Set when door has not opened for 5 cycles. This error is cleared when door switch opens.
F09	Long dry times. Set when dryer reaches maximum cycle time. This error is cleared when the dryer finishes cycle before reaching maximum time.
F010	Empty drum. Set when empty drum is detected; if no empty drum detected in a cycle this error is cleared at the beginning of next cycle.
F011	Dry load. Set when dry load is detected; if cycle completes without dry load being detected this error is cleared at the beginning of next cycle.

*When F7 appears on the control the user will be locked out from running the machine until the voltage is the correct operating range. (See table below.)

Note: Dryer will operate normally with frequencies listed below automatically. Voltages are read from LINE to NEUTRAL

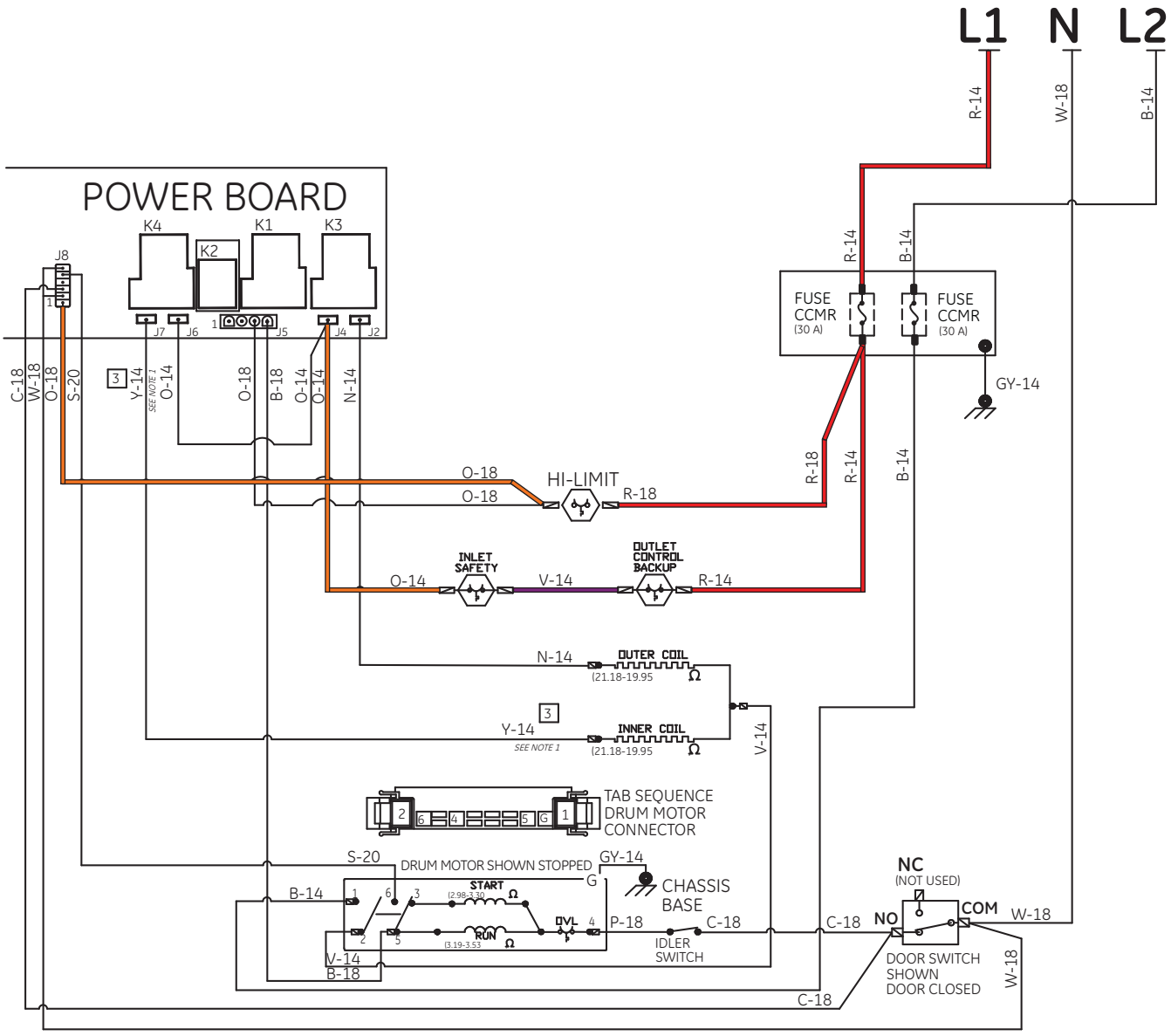
102V	5V - No F code
120V	5V - No F code
155V	5V - No F code
162V	Pulse - No F code
165V	0V - F07 Displayed
200V	0V - F07 Displayed
220V	0V - F07 Displayed
250V	0V - F07 Displayed

Dead Board

If the board is not responding check for voltage through the L1 fuse. If voltage is present there, check voltage from the J8 ORANGE wire to board neutral on J8 WHITE wire.

If no voltage check for an open thermostat or fuse. Remove power from the dryer and disconnect the J8 connector. Check continuity between the J8 and J4 wires.

If continuity, replace the board.



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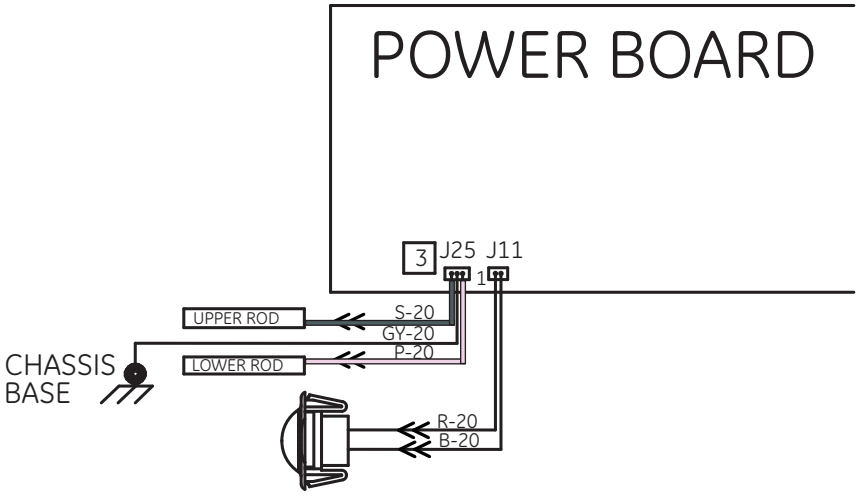
Moisture Sensor Rods

Check from the J25 connector on the board. Look for approximately 5 VDC. Lay a wet cloth across the rods in the drum. You should see the voltage drop.

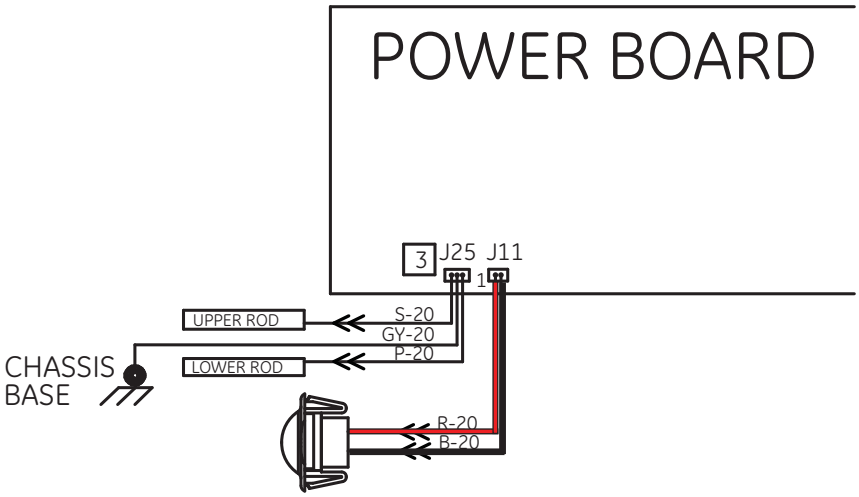
If you do not see the voltage drop, disconnect power from the dryer. Disconnect the J25 connector from the board. With the wet cloth still across the rods, check the continuity across the PINK and GRAY wires. If no continuity, visually check harness and connectors for damage. If you have continuity, replace the board.



Drum Light

Check from the J11 connector on the board. Look for approximately 3.8 VDC.

If you see the voltage, but no light, disconnect power from the dryer. Disconnect the J11 connector from the board. Set your meter to DIODE setting. With your BLACK LEAD on the RED wire, and your RED LEAD on the BLACK wire, you should read approximately 0.727 if good. If you reverse your meter leads, RED ON RED, you will not get a reading.



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Inlet and Outlet Thermistors

Disconnect power from the dryer. Check from the J10 connector on the board. Set your meter to resistance setting.

Inlet thermistor: Check resistance between the 2 WHITE wires.

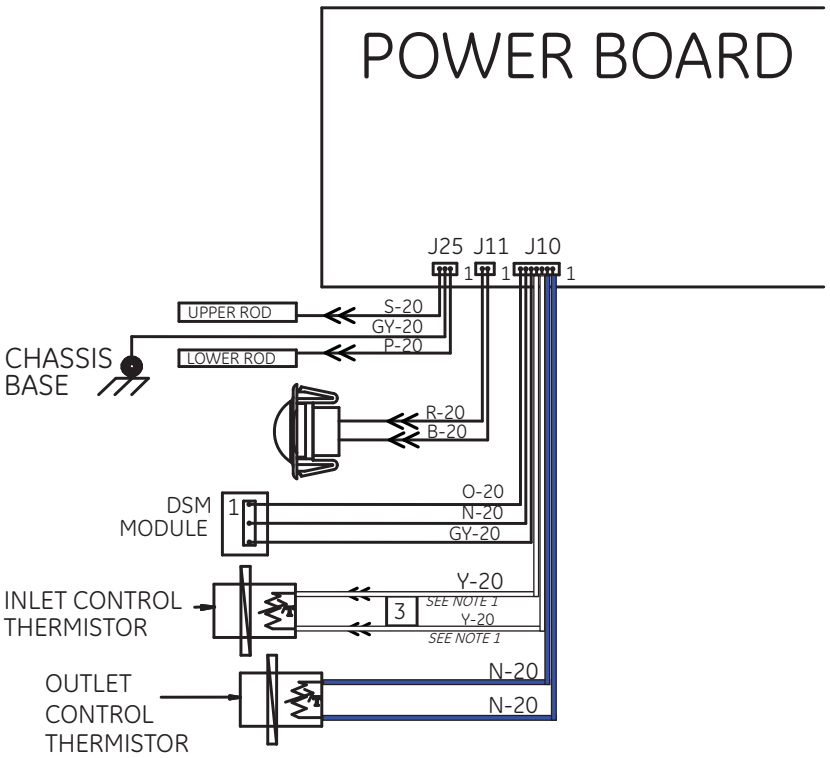
Inlet control thermistor approximate resistance values:

- 59.4 - 65.7K Ω at 69°F (20°C)
- 47.6 - 52.4K Ω at 77°F (25°C)
- 38.4 - 42K Ω at 86°F (30°C)

Outlet thermistor: Check resistance between the 2 BLUE wires.

Outlet control thermistor approximate resistance values:

- 118 - 122K Ω at 69°F (20°C)
- 98 - 102K Ω at 77°F (25°C)
- 78 - 82K Ω at 86°F (30°C)



Note 1: This wire marked as Y (yellow) might be W (white) in some units.

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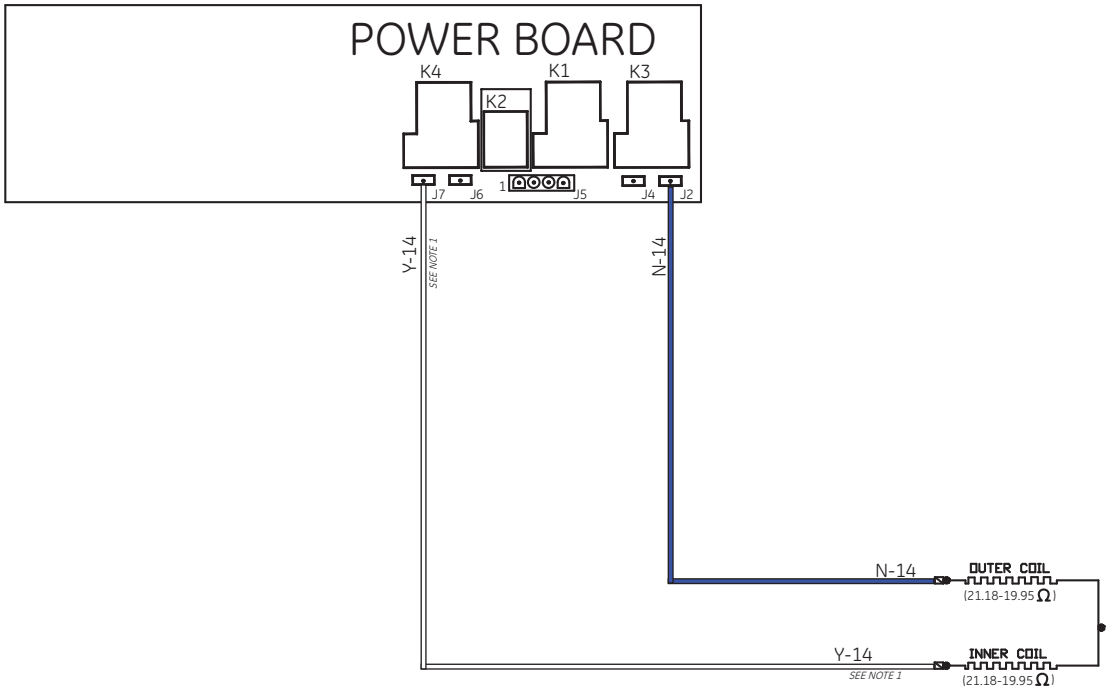
Electric Dryer Heater Resistance

Disconnect power from the dryer. Check from the J7 to the J2 connector on the board. Set your meter to resistance setting.

Check resistance between the BLUE wire on J2 and the WHITE wire on the J7 connector. Should read approximately 41.9 OHM.



Note 1: This wire marked as (Y) yellow might be (W) white in some units.

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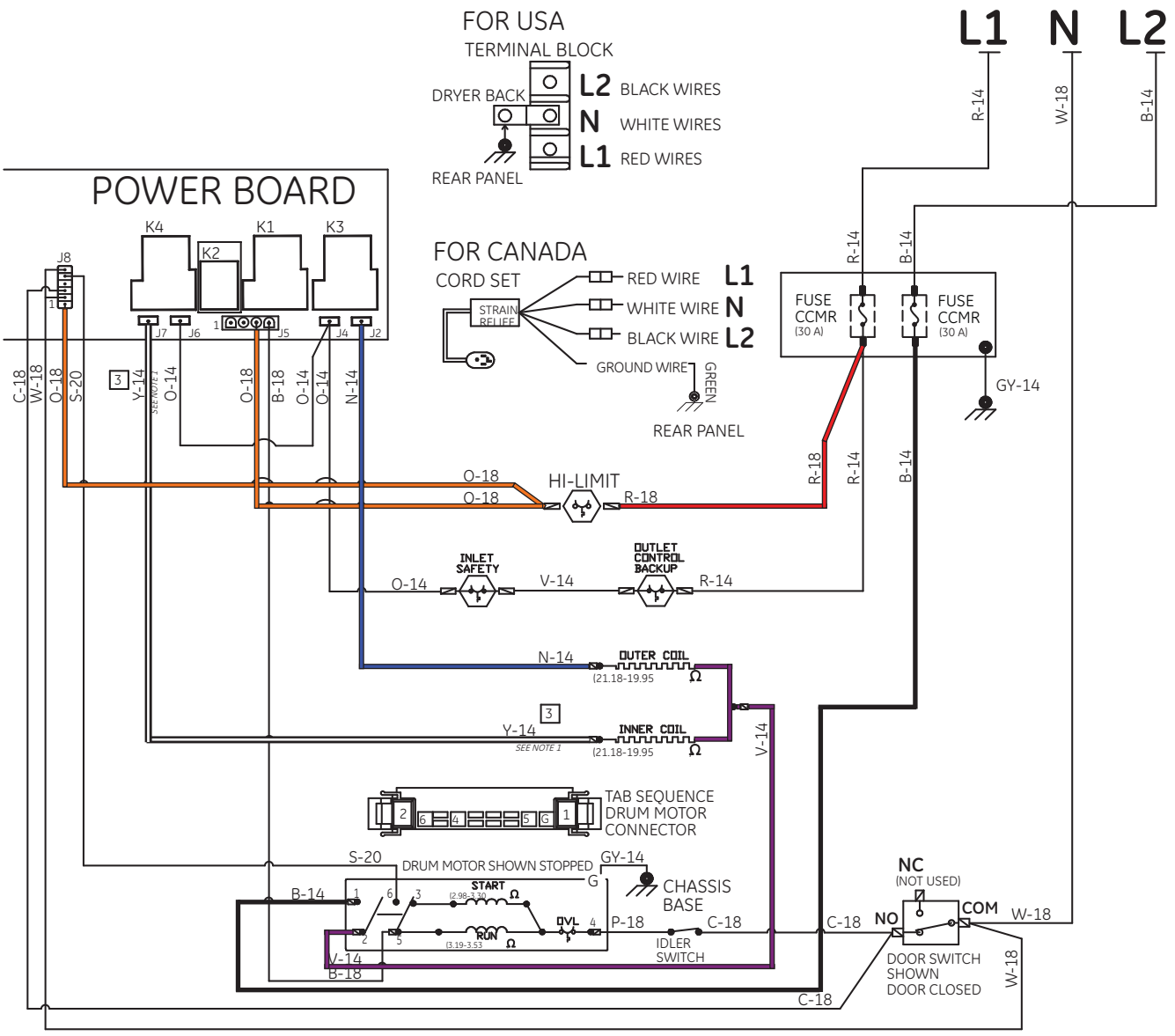
Electric Dryer Heater Voltage

Check from the J7 WHITE wire and the J2 BLUE wire connectors on the board to the ORANGE wires either at the J8 or the J5 connectors. You should read 0 VAC. With the unit in the running position, you should see approximately 240 VAC from any of these wires to the L2 fuse. If you show 240 VAC at these test points, the relay is open, replace the board.



Note 1: This wire marked as (Y) yellow might be (W) white in some units.

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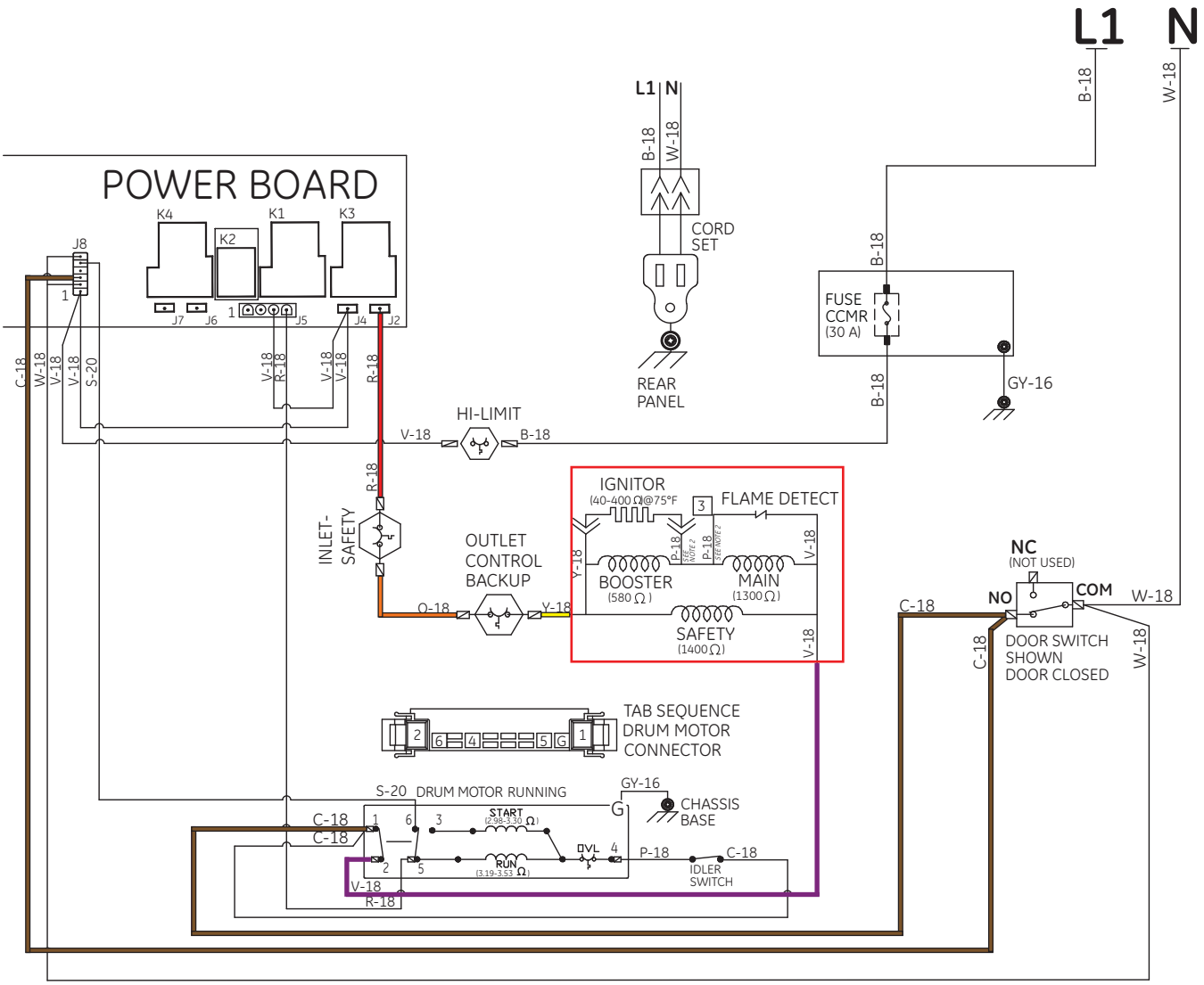
Gas Valve

If no heat, with the dryer running and a heat cycle selected, check for 120 VAC to the gas burner assembly from J2 RED wire to the BROWN wire on the J8. Approximate amperage draw of 3.5 amps can be checked from the RED wire on the J2 connector.

Also check between J4 and J2. If relay is closed, no voltage should be present when calling for heat. If it is, replace the board.

If voltage is present, disconnect power from the dryer. Check igniter, thermostats, flame detector, gas valve coils, motor switch, harnesses, and connectors.



Note 2: This wire marked as (P) pink might be (W) white in some units.

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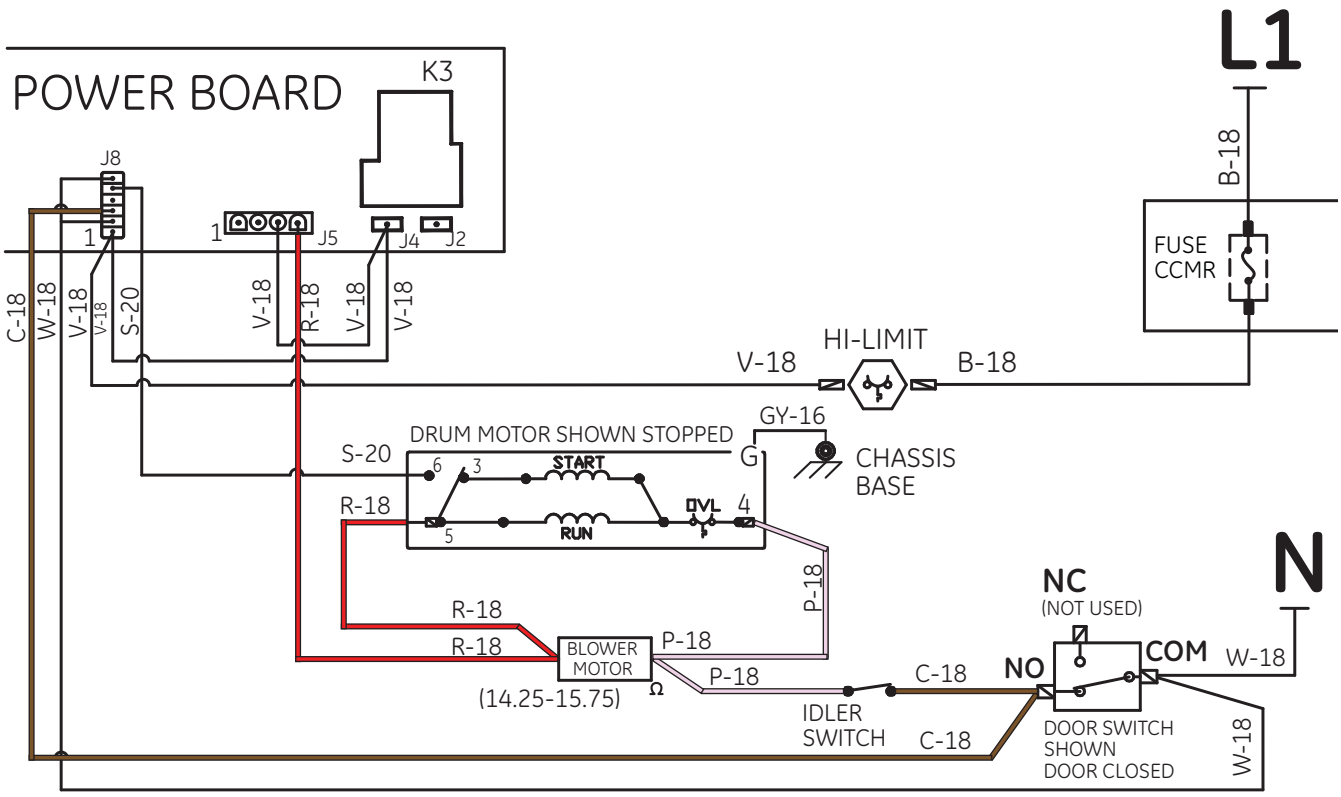
Motor Resistance

Disconnect power from the dryer.

Disconnect the J8 connecter from the board. Set your meter to resistance setting. Check resistance between the BROWN wire on J8 and the RED wire on the J5 connecter. This will read LOWER THAN the lowest resistance because it is a parallel circuit. Follow ohms law. 1/R1 + 1/R2 + 1/R3 = 1/RT

The START winding is 3.14 OHM. If that is open, you may not detect this easily because it will read the RUN winding, 3.36 OHM. Resistances are very close. If both or the overload is open also it will read the BLOWER motor winding 15 OHM. All resistances are approximate.

If reading open, possible idler switch



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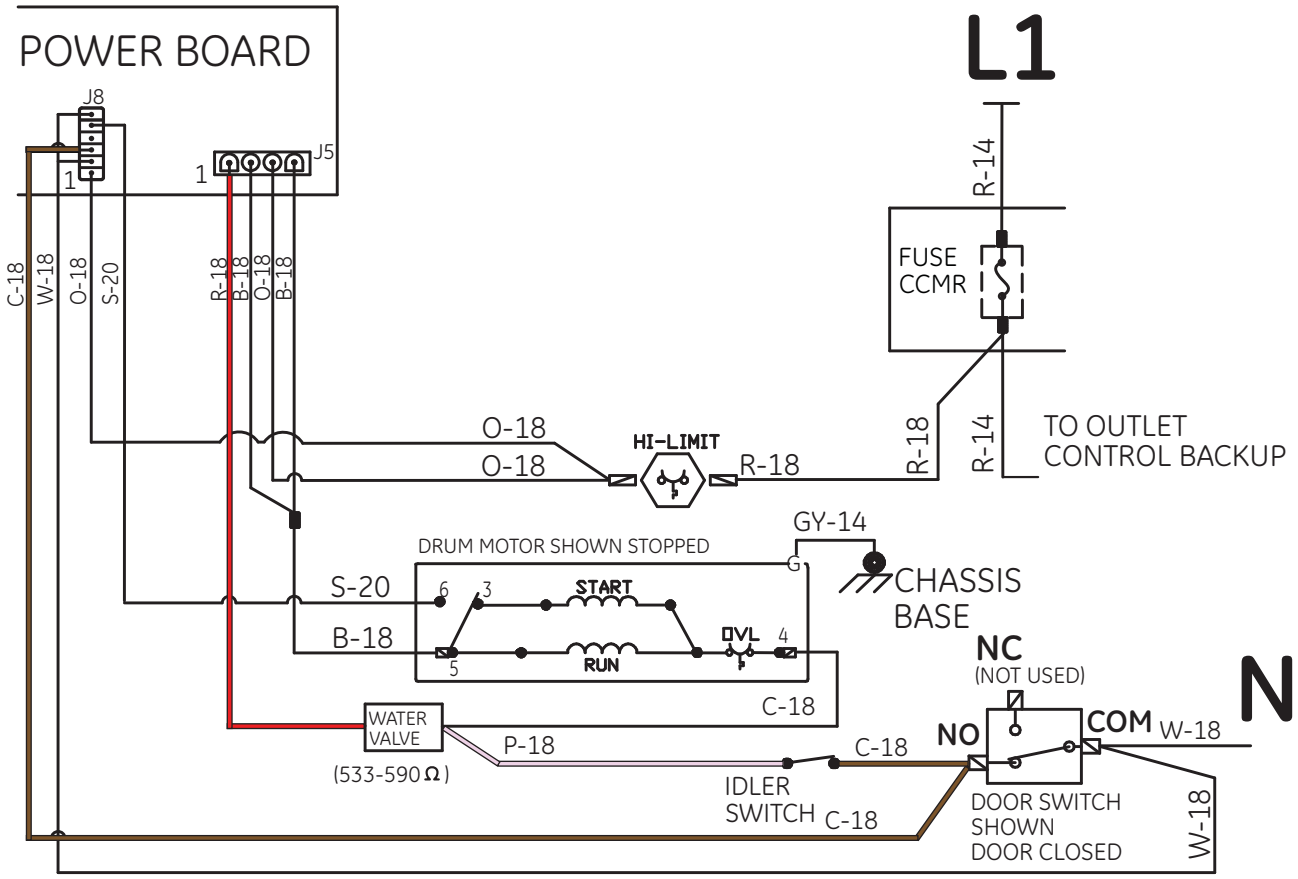
Water Valve

Disconnect power to the dryer.

Remove the J8 connector. Check resistance between the J8 BROWN wire to the RED wire on the J5 connector. Should read approximately 550 OHM.

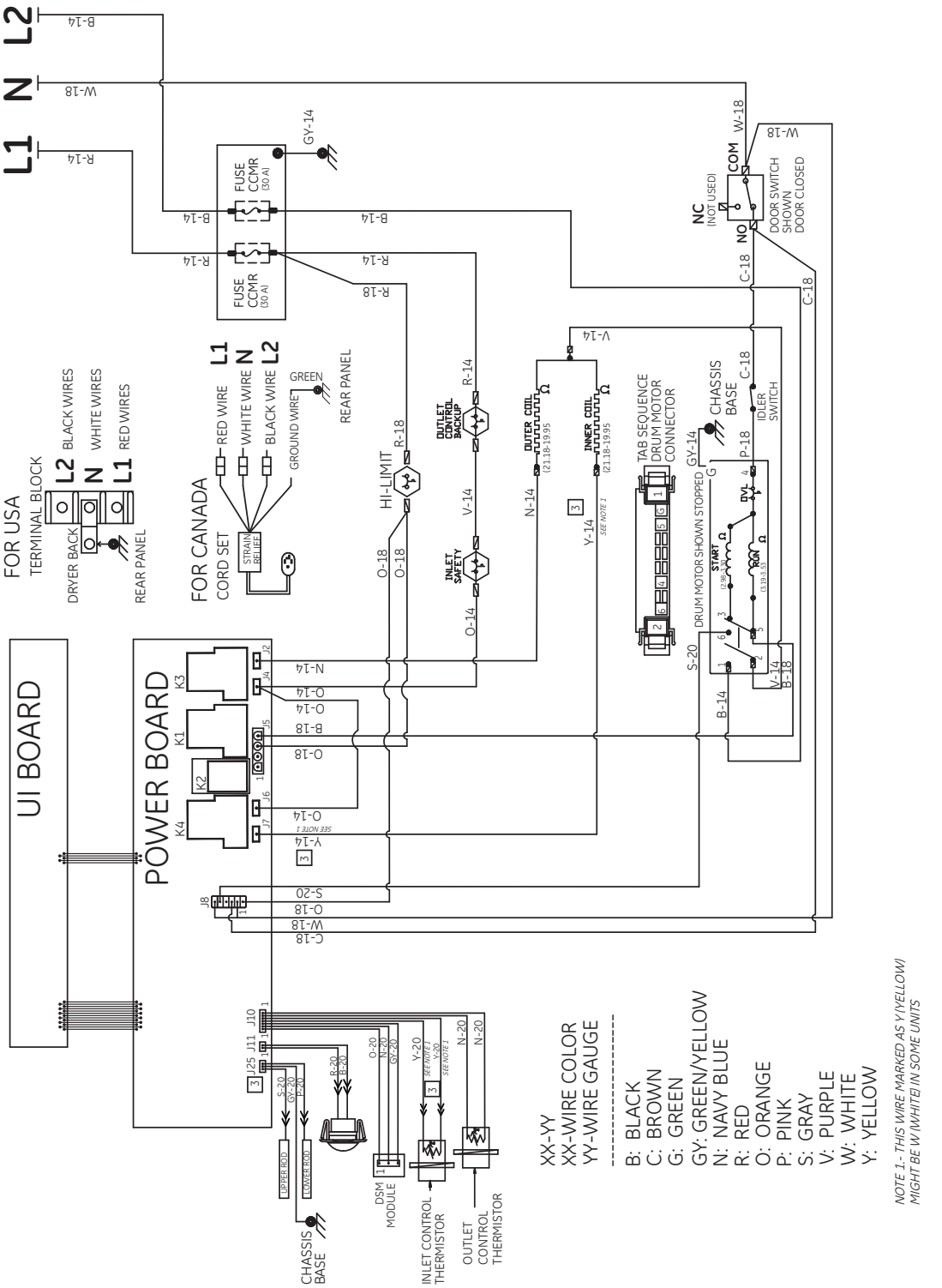
If resistance is good, reconnect wires put the dryer in service mode. Check for 120 VAC at the same.



Electric Model Schematic

WARNING: Disconnect electrical power before servicing.

Caution: Label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify operation after servicing.



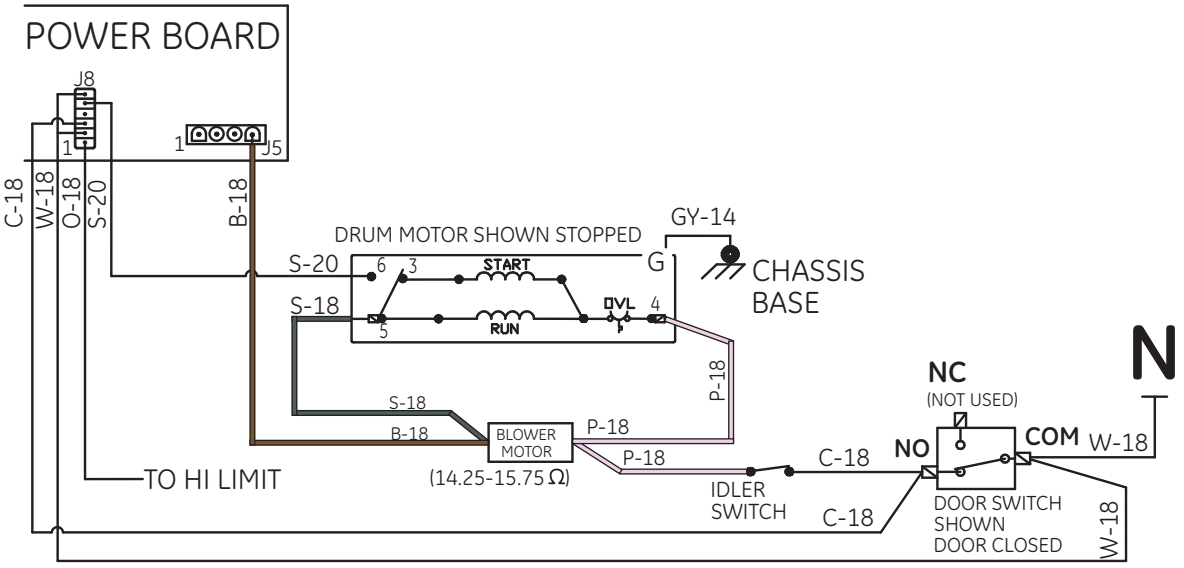
Note: Schematic shows only non-long vent and non-steam models. See Electric Dryer Long Vent and Mist Schematics for long vent and steam models.

(Continued Next Page)

Electric Dryer Long Vent and Mist Schematics

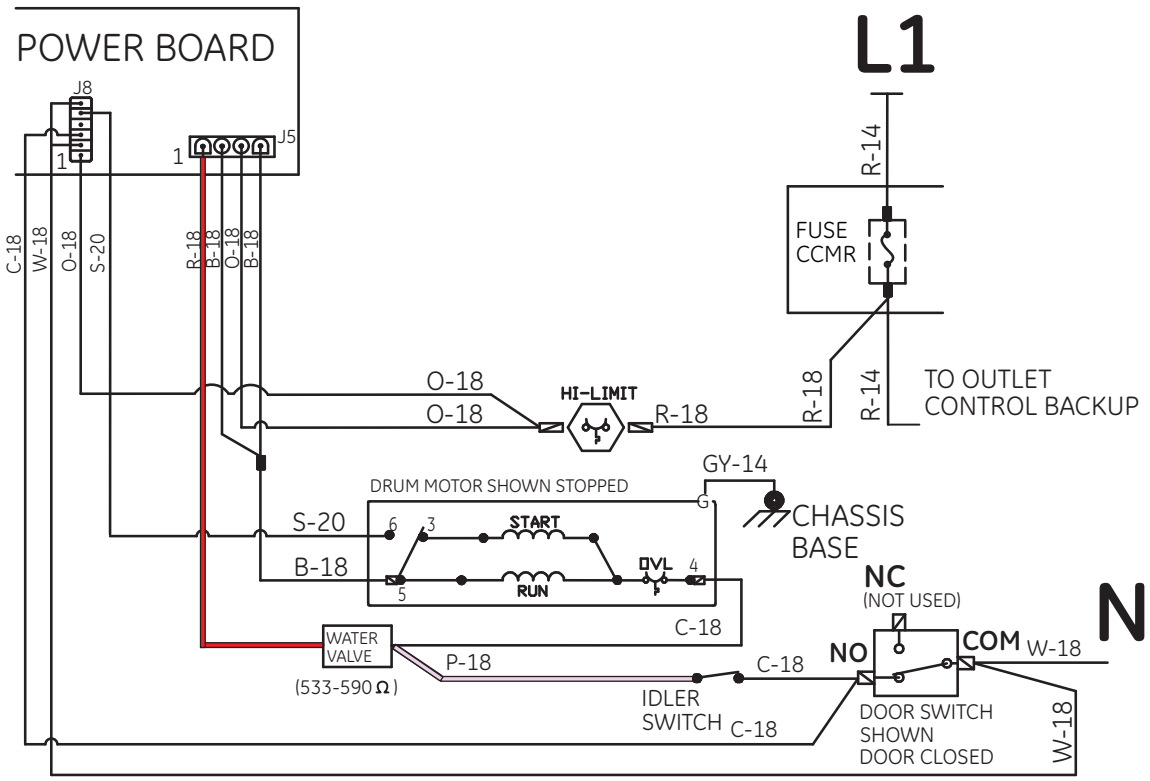
Long Vent Schematic

DIAGRAM BELOW SHOWS CONNECTIONS FOR LONG VENT MODELS. THIS DIAGRAM SHOWS ONLY CONNECTION OF DRUM MOTOR, LONG VENT MOTOR, DOOR SWITCH AND IDLER SWITCH. ALL OTHER COMPONENTS ARE CONNECTED AS SHOWN IN ELECTRIC MODEL SCHEMATIC.



Mist Schematic

DIAGRAM BELOW SHOWS CONNECTIONS FOR MIST MODELS. THIS DIAGRAM SHOWS ONLY CONNECTION OF DRUM MOTOR, WATER VALVE, MOTOR, DOOR SWITCH, IDLER SWITCH, HI LIMIT THERMOSTAT AND CCMR FUSE. ALL OTHER COMPONENTS ARE CONNECTED AS SHOWN IN ELECTRIC MODEL SCHEMATIC.



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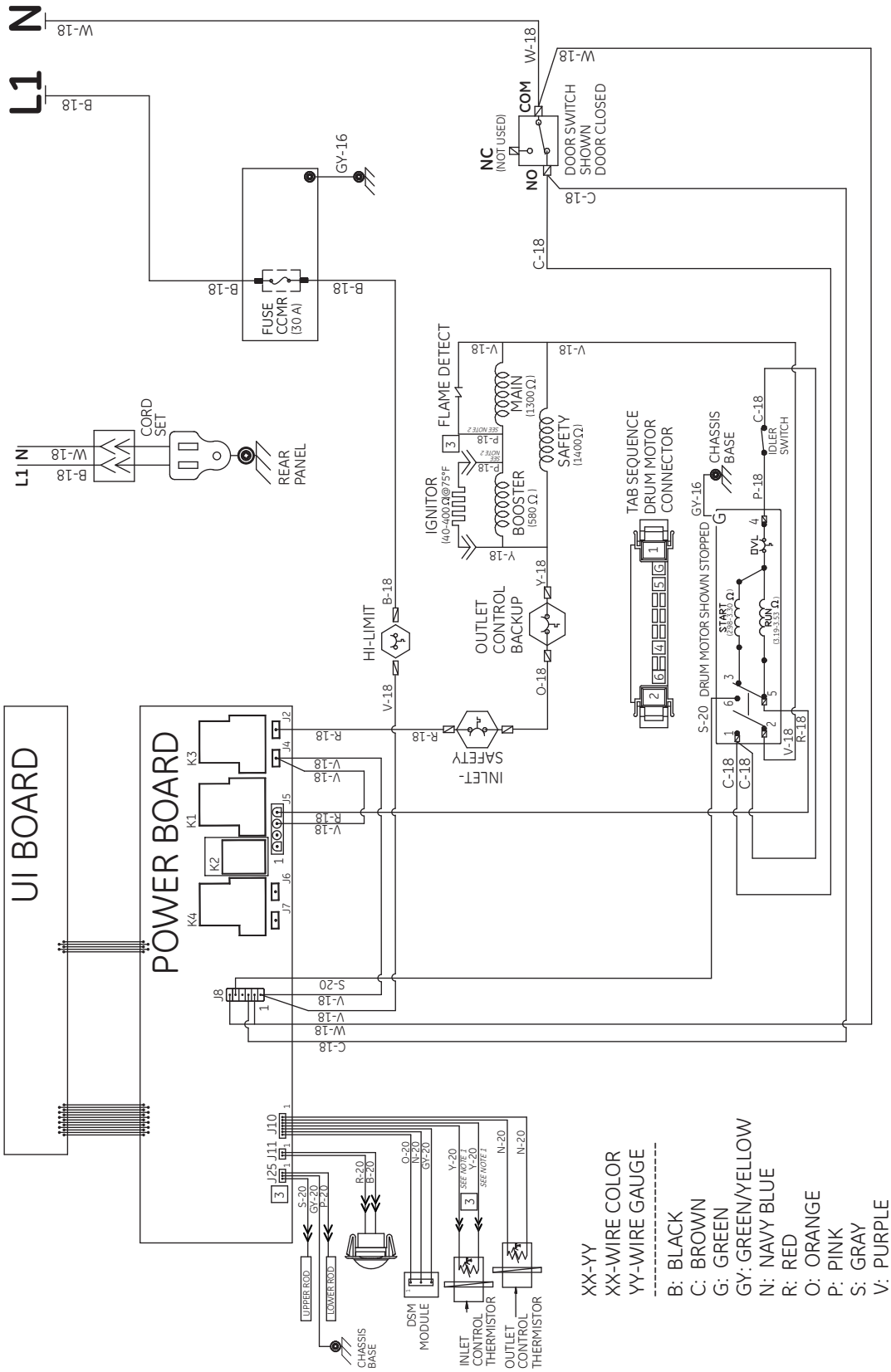
Gas Model Schematic

WARNING: Disconnect electrical power before servicing.

Caution: Label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify operation after servicing.



Note: Schematic shows only non-long vent and non-steam models. See Gas Dryer Long Vent and Mist Schematics for long vent and steam models.

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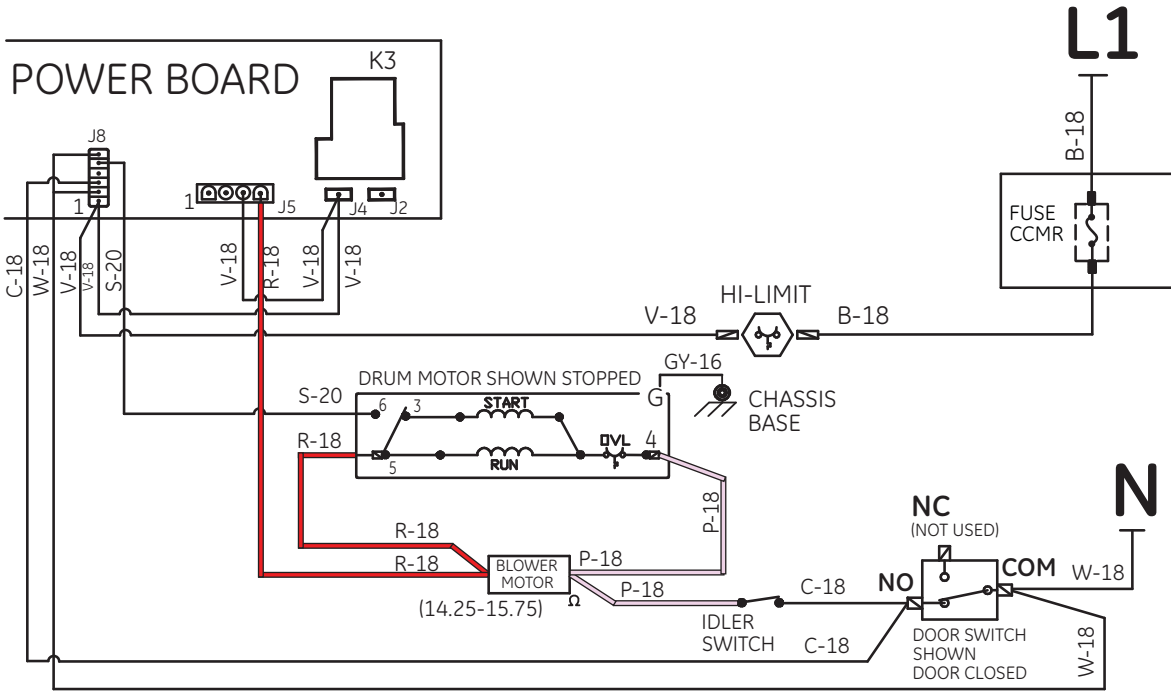
Gas Dryer Long Vent and Mist Schematics

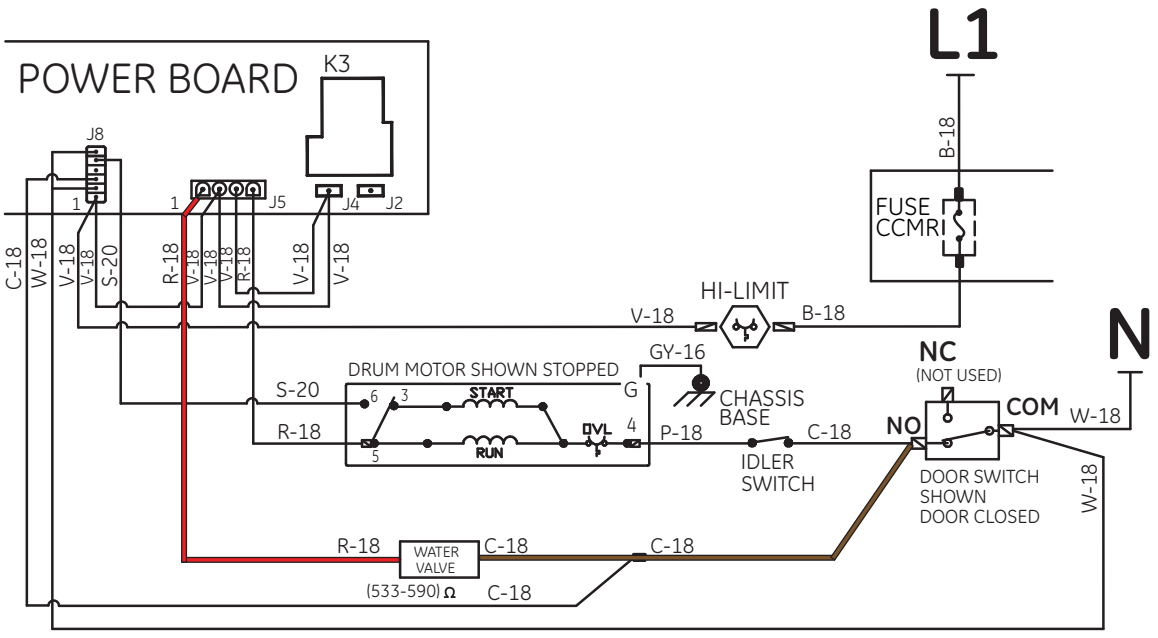
Long Vent Schematic

DIAGRAM BELOW SHOWS CONNECTIONS FOR LONG VENT MODELS. THIS DIAGRAM SHOWS ONLY CONNECTION OF DRUM MOTOR, LONG VENT MOTOR, DOOR SWITCH AND IDLER SWITCH. ALL OTHER COMPONENTS ARE CONNECTED AS SHOWN IN GAS MODEL SCHEMATIC.



Mist Schematic

DIAGRAM BELOW SHOWS CONNECTIONS FOR MIST MODELS. THIS DIAGRAM SHOWS ONLY CONNECTION OF DRUM MOTOR, WATER VALVE, MOTOR, DOOR SWITCH, IDLER SWITCH, HI LIMIT THERMOSTAT AND CCMR FUSE. ALL OTHER COMPONENTS ARE CONNECTED AS SHOWN IN GAS MODEL SCHEMATIC.



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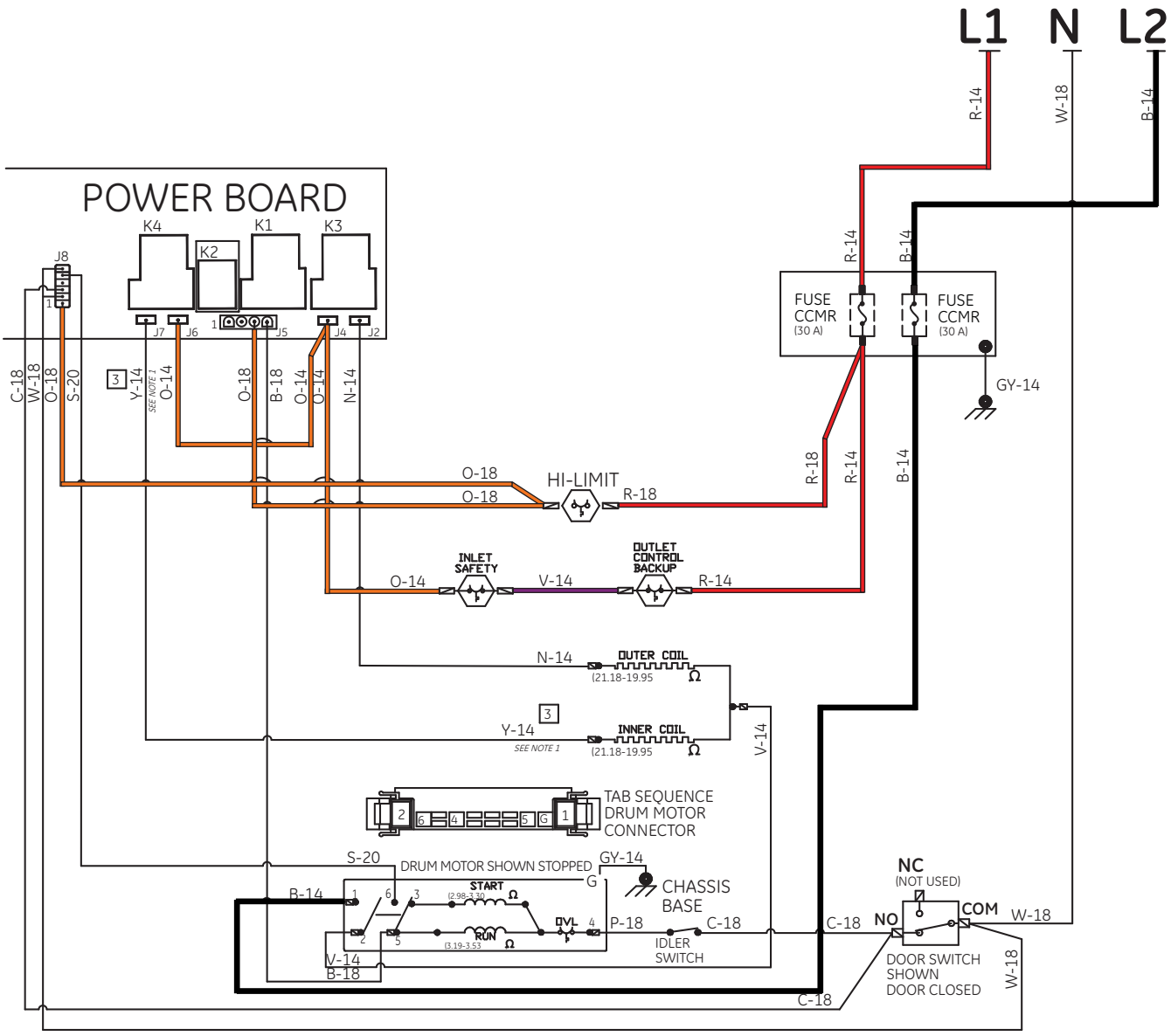
Electric Dryer AC Voltage to the Board and Motor Switch



Note: Board neutral is the white wire on J8.

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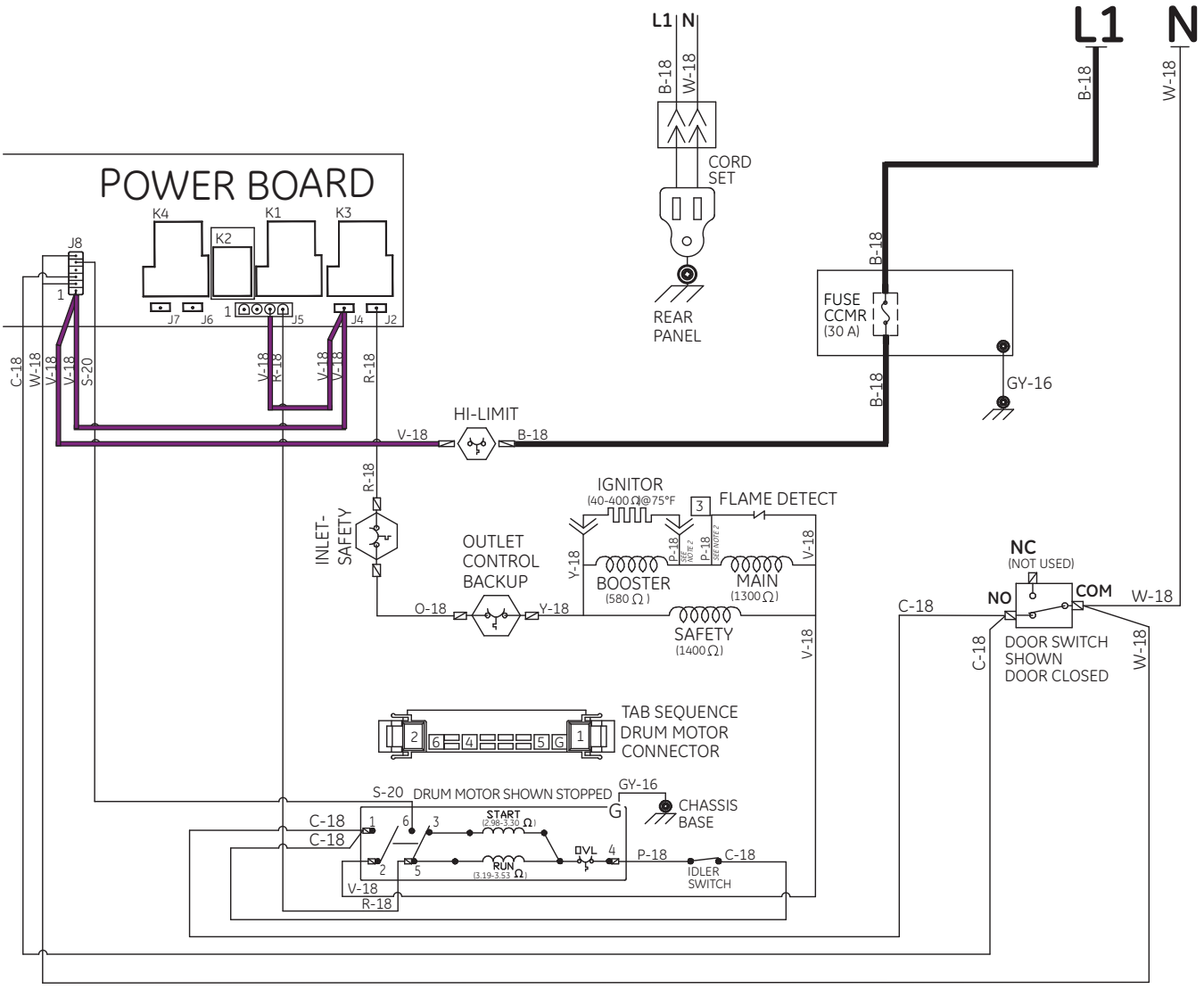
Gas Dryer AC Voltage to the Board



GE Dryer Warranty.

All warranty support provided by our Factory Service Centers, or an authorized Customer Care® technician. To schedule service, on-line, 24 hours a day, visit us at ***GEAppliances.com*** or call ***800.GE.CARES*** (800.432.2737). Please have serial number and model number available when calling for service.

Staple your receipt here. Proof of the original purchase date is needed to obtain support under the warranty.

For The Period Of:	*GE Will Replace:*
One Year *From the date of the original purchase*	***Any part*** of the dryer which fails due to a defect in materials or workmanship. During this ***limited one-year warranty***, GE will also provide, ***free of charge***, all labor and related service costs to replace the defective part.
Second Year *From the date of the original purchase*	***Any part*** of the dryer which fails due to a defect in materials or workmanship. During this ***additional one-year limited warranty***, you will be responsible for any labor or related service costs.
Second through Fifth Year *From the date of the original purchase*	***The extra large or super capacity dryer drum and main electronic control board,*** if any of these parts should fail due to a defect in materials or workmanship. ***During this additional four-year limited warranty,*** you will be responsible for any labor or related service costs.

What GE Will Not Cover:

- **Service trips to your home to teach you how to use the product.**
- **Improper installation, delivery or maintenance.**
- **Failure of the product if it is abused, misused, or used for other than the intended purpose or used commercially.**
- **Replacement of house fuses or resetting of circuit breakers.**
- **Damage to the product caused by accident, fire, floods or acts of God.**
- **Incidental or consequential damage caused by possible defects with this appliance.**
- **Damage caused after delivery.**
- **Product not accessible to provide required service.**
- **Defects or damage due to operation in freezing temperatures.**
- **Products which are not defective or broken, or which are working as described in the Owner's Manual.**

EXCLUSION OF IMPLIED WARRANTIES—Your sole and exclusive remedy is product repair as provided in this Limited Warranty. Any implied warranties, including the implied warranties of merchantability or fitness for a particular purpose, are limited to one year or the shortest period allowed by law.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for home use within the USA. If the product is located in an area where service by a GE Authorized Servicer is not available, you may be responsible for a trip charge or you may be required to bring the product to an Authorized GE Service location for service. In Alaska, the warranty excludes the cost of shipping or service calls to your home.

Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General.

Warrantor: General Electric Company. Louisville, KY 40225